

Grayson College Course Catalog Online

General Information

- [General Information](#)

Vision

Grayson College is a premier learning college that transforms individuals, builds communities, and inspires excellence.

Affiliation and Accreditation

Grayson College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award Associate Degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call [404-679-4500](tel:404-679-4500) for questions about the accreditation of Grayson College.

Other affiliations and accreditations include: The Texas Association of Public Junior Colleges, Accreditation Commission on Education in Nursing, Commission on Dental Accreditation, American Dental Association, The National Accrediting Agency for Clinical Laboratory Sciences, the College Reading and Learning Association, The Committee on Accreditation of Education Programs for EMS Professions, American Culinary Federation, National Association for the education of Young Children, The National Accrediting Agency for Clinical Laboratory Sciences, and the Northern Texas Junior College Athletic Conference. The College has also been approved by the Coordinating Board, the Texas College and University System, and the Texas Board of Nursing. The Southern Association accreditation makes possible the transfer of Grayson College credits not only to Texas colleges and universities, but also to colleges and universities across the nation as well.

Philosophy

Grayson College, as the community's college, embraces lifelong learning focused on educational, cultural, social and public service activities designed to tangibly enrich the individual and our community.

Mission

The mission of Grayson College is to cultivate student success and community building in North Texas by:

- Recognizing our interdependence with various communities
- Providing a broad and dynamic curriculum to support university transfer, career technical education, developmental, and community education
- Developing innovative curricula and services facilitated by appropriate technology
- Creating a supportive learning environment
- Promoting diversity and cultural enrichment
- Supporting economic development
- Committing to an institutional effectiveness process for continuous improvement in the pursuit of excellence

Purpose

According to Texas Education Code 130.003 (e) the purpose of each public community college shall be to provide:

1. Technical programs up to two years in length leading to associate degrees or certificates;
2. Vocational programs leading directly to employment in semi-skilled and skilled occupations;
3. Freshman and sophomore courses in arts and sciences;
4. Continuing adult education programs for occupational or cultural upgrading;
5. Compensatory education programs designed to fulfill the commitment of an admissions policy allowing the enrollment of disadvantaged students;
6. A continuing program of counseling and guidance designed to assist students in achieving their individual educational goals;
7. Work force development programs designed to meet local and statewide needs;
8. Adult literacy and other basic skills programs for adults; and
9. Other purposes as may be prescribed by the Texas Higher Education Coordinating Board or the College District's Board.

Statement of Non Discrimination/Equal Opportunity Policy

With respect to the admission and education of students; with respect to the availability of student loans, grants, scholarships and job opportunities; with respect to the employment and promotion of teaching and non-teaching personnel; and with respect to the student and faculty activities conducted on the premises owned or occupied by the College, Grayson College shall not discriminate either in favor of or against any person on account of race, creed, color, gender, national origin, age, religion, or disability. GC does not discriminate on the basis of sex in the educational programs or activities it operates. Inquiries concerning the application of Title IX and its implementing regulations may be referred to the Title IX Coordinator or to the Office of Civil Rights. Title IX Coordinator is the Assistant Dean of Academic Instruction, Success Center, 6101 Grayson Drive, Denison, Texas 75020, 903-463-8736.

Declaración Sobre el Plan de Acción de Igualdad de Oportunidad

Respecto a la admisión y de la educación de los alumnos, respecto a la utilidad de préstamos, dones, becas y oportunidades de trabajo para los alumnos; respecto al empleo y a la promoción del cuerpo de empleados sea profesores o cualquier empleado; y respecto a las actividades de profesores o de alumnos que toman lugar en los terrenos ocupados por Grayson College, dicho College no discriminará ni en favor ni en contra de cualquier persona a causa de su raza, creencia, color, sexo, origen nacional, edad, religión o inhabilidad.

Grayson College no discrimina en las bases de sexo ni en los programas educativos ni en las actividades que le ofrece al público. Se puede informar acerca del propósito de Title IX y de como se implementan las reglas con el Director de Title IX o con la Oficina de Informar Derechos Legales. El Director de Title IX es el Asistente del Decano de Instrucción Académica, 6101 Grayson Drive, Denison, Texas 75020, 903-463-8736.

Disabilities Services

The College is committed to meeting the special needs of disabled students and coordinates with agencies such as Texas Department of Assistive and Rehabilitative Services and Texas Department of Human Resources to provide appropriate accommodations.

Students with documented disabilities should contact the Disabilities Services Coordinator in the Success Center preferably before classes start or as early in the semester as possible. Once appropriate documentation for the disability is received, the Disability Services Coordinator will coordinate delivery of approved accommodations with students and their instructors. The College makes the following services available to students with documented disabilities: tutoring, note taking, sign language interpreting, special testing conditions, taped textbooks, scribes, special/modified equipment, and other appropriate services.

Family Rights & Privacy Act

In compliance with the Family Educational Rights and Privacy Act of 1974, Federal Law 93-380, information classified as "Directory Information" may be released to the general public without the consent of the student.

Directory information is defined as:

1. Student name
2. Student address
3. Telephone listing
4. Email address
5. Photograph / visual likeness
6. Dates of attendance
7. Most recent previous educational institution attended
8. Other information including major field of study and degrees and awards received.

A student may request that all or any part of the directory information be withheld from the public by making written request to the Admissions Office during the first 12 days of class of a fall or spring semester or during the first four days of a summer session. If no request is filed, information may be released upon inquiry.

The Registrar is custodian of all records for currently enrolled students and for students who have withdrawn or graduated. The Registrar is located in the Admissions Office, Administrative Services Building, and Main Campus.

Access to Public Information: Requests for Public information must be made in writing and delivered to the Public Information Officer via fax, email, US mail or in person. GC uses its fiscal year, September 1-August 31, for tracking requests.

Smoking Policy

To promote a healthy campus environment, Grayson College does not allow the use of tobacco products or any electronic smoking devices in college buildings or vehicles. Tobacco products and electronic smoking devices are permitted only in designated areas or parking lots.

Photo and Video Usage

Grayson College may at times use photographs, audio, and/or video recordings of employees and students for purposes of education, publicity, and student recruitment on behalf of the college, via the Internet, print publications, and other media.

Should an employee or student (or the parents or guardians of such persons who are under the age 18) NOT want to be photographed or recorded, or have his/her name or "directory" information used in connection with any such recording, that person must notify the college in writing.

Individuals who choose to opt-out are also responsible for removing themselves from areas in which photography and/or recording is taking place, or notifying the camera operator of their opt-out status. Failure to do so may result in that individual's inclusion in a photograph or recording and will be treated as consent for the college to utilize that photograph or recording accordingly.

Small Business Development Center

The Small Business Development Center is a non-profit professional management counseling service funded by Grayson College and the United States Small Business Administration that works to enhance the economic development of the north Texas area. The SBDC offers free individual counseling to small business owners/managers and others who desire to start their own business. Areas of counseling include new business start-up, market identification, cash flow analysis, inventory control, general management and more. Low cost workshops, conferences, seminars, and courses are geared to the specific needs of small business engaged in retail, wholesale, manufacturing and service operations. In addition to offering public programs, the SBDC works with organizations to develop and conduct specialized programs adapted to address specific needs and conducted at convenient times and locations. The Grayson College SBDC's services are completely confidential and available to all Grayson and Fannin County residents. SBDC offices are located on the Main Campus.

Grayson College Foundation, Inc.

Supporting Excellence in Community College Education

Vision

The Grayson College Foundation strives to secure philanthropic and external sources of support for Grayson College.

Mission

The Grayson College Foundation serves Grayson College through the development of public understanding and philanthropic support. The Foundation encourages mutually beneficial relationships between the College and its various constituencies.

Purpose

The GC Foundation exists to bridge a gap between the needs and the resources of Grayson College. The Foundation is a non-profit, tax exempt Texas corporation established in 1991 to raise funds to provide assistance to GC students for scholarships; to encourage gifts for facilities and equipment; to develop private funding sources for new programmatic ventures; and to communicate the needs of the College to business, educational, cultural, governmental and other constituencies so that friendships and long-term relationships can be established and sustained. The Foundation seeks to secure financial support for the College, which is ordinarily beyond the scope of tax-based funding, thus providing a margin of excellence for the College.

The Foundation may receive designated or unrestricted gifts and grants to be used for approved purposes at Grayson College. The Foundation may also hold funds in endowment for the College. Gifts to the Foundation are tax-deductible to the extent of limits set by law.

The Grayson College Foundation, Inc. was incorporated in March, 1991, as a 501 (c) 3, nonprofit, tax-exempt entity formed solely for the purpose of support of Grayson College.

The Foundation Scholarship Program

GC student scholarships are funded through the Grayson College Foundation from tax-deductible contributions made by individuals (area residents, GC alumni, GC faculty/staff), organizations, businesses and charitable foundations. Foundation scholarships are available to qualified students who meet the admission and financial aid requirements of the College. The GC Foundation Scholarship Committee meets shortly after the "priority consideration deadline" (March 15) each spring to review scholarship applications that have been properly completed and submitted through the GC Office of Financial Aid. Basic eligibility criteria set by the GC Foundation Scholarship Committee are a minimum 2.5 GPA and minimum part-time enrollment/full-time enrollment preferred. Annual award

amounts are determined based on these criteria. A scholarship donor may make changes to these criteria, or establish limited additional awarding criteria, such as financial need, extenuating circumstances, academic standing, intended major of study, geographic location of residence or high school attended, etc.

HOW TO MAKE A SCHOLARSHIP OR INNOVATIVE LEARNING GRANT CONTRIBUTION

There are several ways to make a tax-deductible contribution. Scholarships and Innovative Learning Grants may be funded through gifts of cash, by Visa/MasterCard, through gifts of real-estate or securities, by making the College the beneficiary of a life insurance policy, by bequest or through a variety of planned giving vehicles. In order to claim a tax deduction on a donation, the donor may not select the recipient, and the selection criteria for recipients must be broad-based. If you are interested in learning more about planned giving opportunities, please contact the GC Foundation Office at (903) 463-8716.

Viking Scholarship Fund

Donors may make a one-time or annual gift, in any amount, which will be pooled with contributions from others and awarded to GC students with financial need or extenuating circumstances.

Annually-Funded "Sponsored" Scholarships and Innovative Learning Grants

A donor may establish one or more named scholarships or Innovative Learning Grants, which range from \$250-\$2,000 per year. Award funds must be submitted to the GC Foundation prior to the beginning of the academic year.

*NOTE: 100% of annual scholarship funds are made available to the recipient and may be used for tuition, fees or textbooks/supplies purchased through the Campus Bookstore.

HOW TO APPLY FOR FOUNDATION SCHOLARSHIPS

Applicants may view a complete list of available scholarships and obtain all required application/financial aid documents by visiting the college's website: www.grayson.edu, from any area high school counselor's office, or by contacting the GC Foundation Office (903) 463-8716.

NOTE: Even though a scholarship applicant may be notified that they have been selected as the recipient of a scholarship award, no funds will be transmitted unless the recipient's file is complete in the GC Office of Financial Aid and unless the recipient meets the basic eligibility criteria for their respective scholarship award.

Students may receive a foundation scholarship for a maximum of two (2) consecutive years. The following required financial aid documents must be completed/submitted to the GC Office of Financial Aid each year before scholarship funds can be transmitted.

- General Scholarship Application (Priority consideration deadline: March 15)
- **NOTE:** Must attach copy of high school or college transcript or GED certificate to scholarship application, along with an essay and letter(s) of recommendation.
- FAFSA/Pell Grant Application process must be completed
- International students must provide the following documentation to the GC Office of Financial Aid
- F1 or F2 student visa - J1 or J2 exchange visitor visa or G series

Foundation scholarship awards range from \$250-\$2,000 per year. The maximum GC scholarship award (which includes all scholarships awarded by the college) for any individual recipient is \$1,000 per semester and may be used for payment of tuition, fees, textbooks and classroom supplies only, unless otherwise stated. Scholarship funds are to be used during the award semester; remaining balances will not carry forward to the following award year, nor may remaining funds be transferred to another school. In order to be considered for all scholarships for which you might be eligible, please indicate the following information on your General Scholarship Application:

- Academic year for which you are applying (ie: 2016-2017)
- Number of credit hours you plan to enroll in each fall/spring semester (should not exceed 65 total credit hours at Grayson)
- Area in which you plan to major
- High school from which you graduated
- High school/college GPA

Institutional and GC Foundation scholarship awards may not exceed the cost of education. A Grayson College scholarship may be reduced or rescinded if the total amount of aid exceeds the total cost of education. Recipients must meet the basic eligibility criteria set for their respective scholarship before award funds can be transmitted.

Basic Eligibility Criteria

Recipient should have a minimum 2.5+ GPA (on a 4.0 scale), unless otherwise stated for specific scholarship.

Recipient must enroll full-time (minimum of 12 credit hours each fall/spring semester), unless otherwise stated for specific scholarship.

Award funds are applied to the recipient's account in the GC Business Office (50:50 - fall/spring semester), and are available for payment of tuition, fees, textbooks and necessary classroom supplies purchased through the Campus Bookstore while attending Grayson College. Unused award funds at the end of each semester are retained by the GC Foundation to be used for future recipients. Applicants who submit their scholarship application by March 15 will be placed in a pool for priority consideration; any applications received after the priority deadline will be held,

and scholarships may be awarded to "late applicants" based on remaining funds available. **Note:** GC Foundation scholarship applicants should not exceed the maximum of 65 credit hours at Grayson College.

Equipment and Facilities

The Grayson College Foundation encourages gifts and grants for facilities and equipment relating to the educational purposes of Grayson College which are not provided adequately through tax-based funding.

Programs

The Grayson College Foundation solicits gifts and grants for new programmatic ventures, evolving academic programs, professional development of faculty and administrative staff, and other educational enrichment activities which are beyond the scope of tax-based funding.

Permanently-Endowed Scholarships & Innovative Learning Grants

Donors may establish a permanently endowed scholarship fund or Innovative Learning Grant through the GC Foundation, with a minimum endowment level of \$5,000 (See Chart, below). The funds are invested by the Foundation and once the principal cash balance has been funded and invested the annual interest earnings from the endowment generate the annual awards. *NOTE: As long as earnings on invested funds allow, the GC Foundation awards 5% of each endowment level. When the principal cash balance reaches the next endowment level, the annual award is subsequently increased.

Following is a chart with examples of endowment levels, as well as the annual awards generated through endowed funds:

Level	Endowment	Annual Award
Platinum	\$35,000+	Multiple Awards/ Amounts Vary
Gold	\$35,000	\$1,800
Dream Weaver	\$30,000	\$1,500
Valhalla (full-tuition)	\$25,000	\$1,250
Dean's Honor	\$15,000	\$750
Leadership	\$10,000	\$500
Distinguished Achievement	\$7,000	\$350
Achievement	\$5,000	\$250

The Grayson College Foundation awards approximately \$350,000-\$450,000 in scholarship assistance for GC students each academic year. Foundation scholarships are funded primarily through charitable contributions from individuals, organizations, businesses, industries and foundations.

The Foundation Scholarship Program

Ray & Mary Morrison Transfer Student Scholarship Fund

In 1999, Mr. and Mrs. Ray Morrison of Denison, TX established a scholarship fund, which provides scholarship awards for qualified graduates of a Grayson County high school, or for students who have graduated from Grayson College, who wish to continue their education at a four-year college or university. Available funds are determined by annual earnings on the endowment. Applicants must have resided in Grayson County for a minimum of three years prior to application, must hold a minimum 2.80 GPA, and must plan to enroll as a full-time student at their transfer school. Contact the GC Foundation Office for more information, or to request a Transfer-Student application

Permanently Endowed Funds that Provide Scholarships and Awards for GC Students

To view a list of scholarships and their criteria, go to the following link:

<http://grayson.edu/future-students/financial-aid/scholarship-listing.aspx>

Grayson College Foundation Board

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Grayson College Foundation Ex-Officio Members

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Jeremy McMillen, President of the College

Posthumous Members

Martha Dollarhide
Margaret Ann Hill
Ben McKinney
Ray Morrison
Pat Richardson
Burney Robinson
Charlotte Spears
John Wilcox

Grayson College Foundation Staff

Randy Truxal, Executive Director
Janis Thompson, Grant Writer
Cynthis Perez, Executive Assistant to the Executive Director
Linda Ellason, Alumni Development Specialist

Last updated: 06/23/2017

Grayson College

6101 Grayson Drive (Hwy. 691) Denison, TX 75020
(903) 465-6030

Grayson College Course Catalog

Financial Information

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Tuition and Fees

TUITION AND FEES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Semester Tuition Charges for Academic Courses

In-District Resident	\$50 per semester hour
Out-of-District Resident	\$88 per semester hour
Non-Resident of Texas	\$134 per semester hour with a minimum of \$200 per semester

Required Fees

Student Services Fee.....	\$7.00 per semester hour
General Use Fee.....	\$16.00 per semester hour
Technology Fee.....	\$5.00 per semester hour
**Facility Use Fee.....	\$4.00 per semester hour

**Facility Use Fee charge is based on course location.

Lab Fees

Specific courses require an additional lab fee. Please consult the Registration Guide each semester for a listing of courses and the corresponding lab fees.

Other Fees, As Applicable

ID Card (<i>per semester</i>).....	\$ 2.00
Matriculation Fee (<i>per semester, non-refundable</i>).....	10.00
Late Registration Fee.....	75.00
International Student Application/Evaluation Fee.....	100.00
Returned Check Fee.....	25.00
Reinstatement Fee.....	50.00
Third Attempt "Rider 50" Tuition (<i>per credit hour</i>).....	50.00
Private Music Instruction	
Half hour per week per semester.....	165.00
One hour per week per semester.....	330.00
American College Testing Program (ACT) Test.....	19.00
General Education Development (GED) Test.....	65.00
College Level Examination Program (CLEP) Test.....	135.00
English Essay.....	20.00

Assessment of basic skills fee may be charged at the time of registration.

Tuition and Fees for Auditing Courses

Tuition and fees for auditing a course are the same as those paid by students registering for credit. The deadline for auditing a class is the census date for the course. Students must complete audit forms in the Office of Admissions and Records to audit a course. If paperwork is not submitted by census date, the student will receive a grade in the course, and the course and grade will appear on the student's transcript.

Payment of Tuition and Fees

All tuition and fees must be paid by payment deadlines. A student is not officially enrolled until payment is made in full.

Excessive Credit Hours

Texas Education Code Section 54.068 stipulates that the State of Texas will not provide funds to state institutions of higher education for excess semester credit hours earned by a resident undergraduate student. Since funding will not be provided by the State, and as permitted by State law, certain state institutions of higher education will charge tuition at the non-resident rate to students that exceed the semester credit hour limit of their program.

Effective with students initially enrolling in the fall 1999 semester and subsequent terms, hours, including dual credit hours, attempted by a resident undergraduate student at any public Texas institution of higher education that

exceed more than 45 hours of the number of hours required for completion of the degree plan in which the student is enrolled.

Effective with students initially enrolling in the fall 2006 semester and subsequent terms, hours, including dual credit hours, attempted by a resident undergraduate student at any public Texas institution of higher education that exceed more than 30 hours of the number of hours required for completion of the degree program in which the student is enrolled.

For purposes of excess hours, resident undergraduate student includes a non-resident student who is permitted to pay resident tuition.

Students could be impacted by this law and should be aware of the impact of taking courses in excess of their degree program, and if they plan to transfer to other institutions of higher education in Texas.

Third Attempt "Rider 50" Tuition

Students of GC are charged a higher tuition rate for each course they repeat for three or more times at a rate of \$50 per credit hour. The "third attempt" course tuition rate applies to the majority of credit courses counting each time a student has taken a course since fall 2002. "Third attempt" tuition does not apply to developmental education courses and repeatable courses.

A student enrolled in his/her last semester at GC taking a course required for graduation will not be charged the higher rate even though the course has been taken three or more times. The qualifying student should apply for graduation before the beginning of their last semester in the Office of Admissions and Records. The student must notify the Office of Admissions and Records of their final semester of attendance before graduation and which course(s) is the repeated, required course to avoid the higher "third attempt" course tuition rate.

Returned Check Policy

A \$25.00 returned check fee is charged for each check returned by the bank. A stop-payment is considered the same as a returned check. All returned checks and returned check fees *must be paid by cash, cashier's check, MasterCard or Visa*. Students are notified of returned checks by certified mail. If the returned check is not redeemed by the deadline specified in the letter, the student is withdrawn from classes for that term and a hold is placed on the student's record. Subsequent reinstatement for that term can be granted only through a successful appeal to the Admissions Committee and requires a \$50.00 reinstatement fee.

Financial Obligations

Until all financial obligations to the College have been satisfied, a hold is placed on a student's records which bar the student from registering or having an official transcript issued.

Residency Requirements for Tuition Purposes

To be considered a Texas resident, students must clearly establish residence in Texas for the 12 months preceding their enrollment. Documentation of Texas residency may be required in addition to the application for admissions.

1. An in-county student is an individual who is a resident of Texas (as defined by the Texas Education Code, Section 54.075) and who resides in Grayson County on the census date of the term.
2. An out-of-county student is a resident of Texas (as defined by the Texas Education Code, Section 54.075) who resides outside of Grayson County on the census date of the term.
3. An out-of-state student is an individual who has not resided in Texas for 12 months preceding registration. Anyone who enrolls as a non-resident of Texas is presumed to remain in that classification as long as he/she continues as a student. Most students on temporary visas will also be classified as nonresidents for tuition purposes. Contact the Admissions and Records Office for visas eligible for in-state residency.

NOTE: Oklahoma residents are classified as non-residents but are eligible to receive a waiver of non-resident tuition and will be charged out-of-district rates, upon providing the same documentation as required of Texas residents.

The responsibility for registering under the proper residency classification is that of the student, and any question concerning the student's right to classification as a resident of Grayson County must be clarified prior to enrollment at Grayson College. Changes of address affecting residency should be reported promptly to the Admissions and Records Office. The Admissions and Records Office handles all residency appeals. The residency appeal and supporting documentation is the responsibility of the student.

Documents to Support Residency

Documentation of Texas residency may be required in order to pay in-state tuition. Generally, the following documents may be used in meeting residency requirements:

- Texas public, private, home school or high school transcript (if enrolled the last 12 months) showing three years of attendance and a graduation date.
- Letter of employment on company letterhead (verifying one year of employment).
- Proof of paying in-state tuition at a Texas public institution of higher education during the previous fall or spring long semesters.

Waiver for Property Ownership

Persons who own property in Grayson County and reside outside the taxing district may be eligible for an ad-valorem waiver. Contact the Admissions and Records Office for information.

Tuition Rebates for Certain Undergraduates

First-time students entering Texas public institutions of higher education may be eligible for a \$1,000 tuition rebate after earning a baccalaureate degree from a public Texas university. To be eligible for the rebate, a student must be a Texas resident and have attempted no more than three hours in excess of the minimum number of semester credit hours required to complete the degree in the catalog under which they graduated. Community college students hoping to qualify for the rebate should check with academic advising at the university where they plan to transfer to be sure the courses they are taking will apply to the university degree program they are pursuing. For specific eligibility information, contact the Counseling Services office at GC.

Refund Policy

Withdrawal from the Institution or Reduction of Credit Hour Load

It is the responsibility of the student to complete the steps necessary to officially withdraw from college. Students may add and drop classes, as well as withdraw from the college by visiting Counseling Services or the Admissions and Records Office.

Students enrolled in semester credit hour courses who officially withdraw their semester credit hour load at Grayson College shall have tuition and required fees refunded according to the following schedule. Refunds for courses with unique scheduling will be processed according to state guidelines. Specific dates for all semesters are located in the Semester Calendar in the Schedule of Classes. Minimester and eight-week semester refund schedules are also listed in the Schedule of Classes.

Fall or Spring Semester:

Prior to the first class day.....	100%
During the first fifteen class days.....	70%
During the sixteenth through twentieth class days.....	25%
Thereafter.....	None

Summer Session:

Prior to the first class day.....	100%
During the first five class days.....	70%
During the sixth or seventh class day.....	25%
Thereafter.....	None

For purpose of the refund policy, a class day is defined as a day during which college classes are conducted. The count begins with the first day classes are held during the term and includes each consecutive class day thereafter. The count is not based on the number of times a particular class has met. The first class day and other important dates are listed in the Schedule of Classes each semester.

As per federal guidelines regulating the refund of Title IV (financial aid) programs, all refunds due to the Title IV Programs shall be refunded as follows:

- a. Federal Stafford Direct Loans
- b. Federal Pell Grant 21
- c. Federal Supplemental Educational Opportunity Grant (FSEOG)
- d. Other Title IV Programs
- e. Other state, private, or institutional student financial assistance programs.

Students receiving Title IV funds (Pell, and other federal grants, and Student Loans), who subsequently withdraw from classes, will be required to return a portion of the federal financial aid received. Only the percentage of aid earned (determined by the percentage of time attended) will be eligible for retention on the student's behalf. Any aid that is not earned must be returned to its source. If there is a student account balance resulting from these adjustments, the student is responsible for payment. Further details can be obtained from the Office of Financial Aid.

A portion may be returned to the student only after the appropriate amounts have been allocated to the Title IV Programs. No refund to a Title IV Program shall exceed the award from that program.

Refunds are processed as soon as possible. No refunds can be made until after the third week of classes to allow all checks to clear the banks. Refund checks are usually mailed within four weeks following the end of the refund period. Students may also set up direct deposit by visiting My Viking.

Housing

Students interested in living on campus might consider the Viking Residence Hall at Grayson College. Viking Hall has a main lounge area for entertaining guests, as well as a study lounge and game room. Telephone outlets, television cable services, and wireless Internet access are available. The Hall is equipped with free laundry facilities. The residence hall has a live-in supervisor and other staff. Students living in the residence hall must purchase a meal plan.

Please note that campus housing is closed during the Christmas break and summer, unless otherwise published. Residents should plan ahead for alternative living arrangements for these periods.

The resident housing program at Grayson College strives to promote the services necessary for students to live comfortably in a group environment. Residence Hall living provides an atmosphere in which students may develop socially as well as intellectually.

An online Housing Application can be found on the Grayson website, under Campus Housing. For additional information you can contact the Director of Student Life and Housing.

Student Life and Housing Office

Grayson College

6101 Grayson Drive

Denison, TX 75020

(903) 463-8693

Financial Aid

The Office of Financial Aid is available to help eligible students meet the cost of attending college. The primary responsibility of financing an education rests with students and their families; however, scholarships, grant, loans, work opportunities, and other financial aid are available to students who qualify for the programs. The level of federal and/ or state financial aid provided to students is based upon demonstrated financial need. Processing time is six to eight weeks, so students should apply as early as possible. It is recommended that the application be completed so that all forms can be turned in to the Office of Financial Aid by the following dates:

Fall semester – June 1

Spring semester – October 1

Summer terms – April 1

Satisfactory Academic Progress Policy for Financial Aid (SAP)

- Your satisfactory academic progress will be determined at the end of each regular semester. It is important for you to be aware of how this evaluation relates to your Title IV aid and differs from the academic requirements for continued attendance and earning a degree. Although standards may differ somewhat among schools, all schools are required to include certain components as detailed below.
- Satisfactory Academic Progress = GPA + Pace (Completion Rate) + Max Time Frame

All three standards must be met for SAP to be maintained. SAP is evaluated using cumulative grades and credit hours, this includes semesters when no aid was received.

1. **Grade Point Average:** Students enrolled in college level course work must maintain a cumulative GPA of at least 2.0. Grades of A, B, C, D, and F contribute toward the cumulative GPA. Grades of P, I, U, AU, S, and Z do not contribute towards the cumulative GPA. Developmental courses do not produce a GPA. (Note: Federal regulations allow students to enroll in classes in their degree plan with a limited amount of developmental course work. However, students cannot receive Title IV federal aid for more than 30 attempted semester hours of developmental courses.)

Students who do not have an academic history at Grayson College (first time college enrollment or incoming transfer student) will be evaluated upon receipt of their ISIR.

1. **Pace (Completion Rate):** Students must earn at least 66.67% of all courses attempted in their academic career. Grades of A, B, C, D, P, and S are treated as successfully completed and earned. Grades F, W, and I are not. Both developmental and college level course work are included in Pace. All repeat courses are included in attempted credits and any courses with passing grades are treated as earned. Courses taken on an audit basis and/ or continuing education classes do not count when determining enrollment status for financial aid, nor are they considered as courses earned for purposes of determining Pace.

Withdrawals, drops, repeated courses, and transfer hours are counted toward the total hours attempted each semester as it relates to Max Time Frame regarding attempted hours.

1. **Max Time Frame:** Federal regulations require a maximum time frame for completion of a degree or certificate not to exceed 150% of the normal requirements of the program. Students pursuing a two-year program of study (Associate Degree) or a one-year program of study (Certificate) may not receive financial aid for more than 150% of the attempted credit hours of the outlined degree requirement as stated in the Grayson College General Catalog. Attempted credit hours include transfer credits. Students who exceed the max time frame will be ineligible for financial aid effective immediately for any future semesters. Developmental courses do not count toward the max time frame, since these classes are not included in the degree plan. The student may file an appeal and if the appeal is approved the student will be placed on an Academic Success plan and be allowed to receive financial aid while following the plan.

Warning / Suspension / Failure to Maintain Satisfactory Academic Progress

Financial Aid Warning: Financial Aid Warning occurs when the cumulative grade point average is less than 2.0 and/or less than 67% of attempted cumulative course work is successfully completed for any semester a student receives financial aid. Financial Aid Warning also occurs if the student receives all F's for attempted classes in a semester. The Director of Financial Aid also reserves the right, through professional judgment, to place a student on Financial Aid Warning. There is no need to appeal financial aid warning. Students will receive financial aid for one semester; this includes student loans, while on financial aid warning. If, by the end of the semester that the student is on financial aid warning, the student is not meeting satisfactory academic progress, they will be placed on financial aid suspension. There is no warning period for exceeding the max time frame.

Financial Aid Suspension: If, after being on financial aid warning, a student has a cumulative grade point average less than 2.0 and/ or a cumulative completion rate less than 67% they will be placed on Financial Aid Suspension. If a student exceeds the max time frame for their program they will be placed on financial aid suspension.

Appeal Procedure: Students placed on financial aid suspension due to lack of satisfactory progress may appeal the denial of financial aid due to an unusual or extraordinary situation that affected the student's progression toward the successful completion of his or her program of study. Examples of unusual circumstances include: injury or illness of the student or family member, death of a relative of the student, maximum time limit exceeded, or other extenuating circumstances. The appeal must be submitted in writing to the Office of Financial Aid and should include: an explanation of the reason(s) why the minimum Satisfactory Academic Progress standards were not achieved and supply a copy of all supporting documents. Students must provide a copy of their degree plan and an change of major that has been signed by their academic advisor. If the appeal is reviewed and subsequently approved by the Appeals Committee, the student will be placed on a Probationary Status. The Director of Financial Aid shall also have the authority to place conditions upon the receipt of any financial aid for those cases where aid is reinstated.

Students who have submitted an appeal and have been approved will be notified by mail or email, depending on the student's preference, of the conditions that must be met in order to regain eligibility for Title IV Federal Aid. Students whose appeal is approved are placed on Financial Aid Probation. The student's progress will be re-evaluated at the end of the semester.

If the conditions of the appeal are met the student will be removed from probation status.

- If the conditions of the appeal are not met by the student: the student is placed on Financial Aid Suspension.

Students on Financial Aid suspension may continue to enroll at Grayson College at their own expense. Students may regain their eligibility for financial aid by raising their GPA and/ or Pace. Students are responsible for notifying the Office of Financial Aid when they have regained eligibility for Title IV aid.

Max Time Frame Appeal: Students who exceed the 150% maximum time limit will no longer be eligible for financial aid. After exceeding the max time frame the student cannot regain eligibility. They may file an appeal and if it is approved they may only be placed on an Academic Success Plan and must complete their program within the conditions set therein. The student is allowed to appeal to request financial aid for additional hours above the number required in the program if: the classes apply toward the student's program, changing their program, or earn a second degree at GC.

General Information

Students who receive benefit of Academic Fresh Start at GC: All attempted hours will be counted toward the max time frame for those students who apply and receive approval for Fresh Start for GC's Office of Admissions and Registrar. Students receiving the benefit of Academic Fresh Start at GC should check with the Financial Aid office prior to enrolling for classes.

Repeated Courses and Courses Dropped before the official census date: Credits that have been repeated will be considered toward the max time frame for the students program. Classes that are dropped before the institutions official census date will not count toward the max time frame, nor will they be considered as part of the required pace for the given semester.

Students who withdraw completely from their courses or receive any combination of all F's, W's, and/ or I's: Federal regulations require the institution to perform a Return to Title IV (R2T4) calculation for all students who are within this category. Student will be notified by mail of the amount of unearned aid that must be returned to GC and/ or the Department of Education. A student has the ability to request their instructor(s) to provide the last date of attendance to the Director of Financial Aid by e-mail or ascertain from their instructor the official attendance dates are on the official class roll that is submitted to the office of Admission and Records. On receipt of the last date of attendance from the instructor the R2T4 will be recalculated. Students will not be able to receive an official transcript or additional Title IV aid until any balance created by an R2T4 is paid. Any student in this category and has enrolled early for the following semester will be dropped from their courses if the courses were paid for using Title IV aid. Once the R2T4 has been paid in full or payment arrangements have been made the student may enroll during the regular registration period.

Establishing Your Aid in the Office of Financial Aid: Each Student seeking federal and/ or state financial aid must complete the Free Application for Federal Student Aid (FAFSA). Students and/ or parents are encouraged to obtain an FSA ID to sign the FAFSA electronically. Failure to sign the application electronically may delay the processing of your application. Grayson College's school code (003570) must be entered on the FAFSA in order for the Office

of Financial Aid to utilize the information on the application. To complete a FAFSA electronically go to the website www.FAFSA.ed.gov. Computers with internet access are located in the Grayson College library or outside the Office of Financial Aid in the Administration Building.

Student files that are selected for verification by the Department of Education or that have questionable data will be required to complete a Verification Worksheet and provide any documentation required by the Department of Education. Title IV funds that are left as credits, after a student's balance has been paid, will be refunded to the student by way of a mailed paper check or direct deposit. Direct deposit account activation is available through the students' My Viking.

To verify you have been awarded aid please review your account by accessing My Viking at www.grayson.edu.

For more information about requirements, qualifications, and application deadlines, contact the Office of Financial Aid or visit our website at www.grayson.edu.

Federal Pell Grant: The Federal Pell Grant Program was designed to provide more students the opportunity to attend college. Grants are based upon financial need and are awarded to eligible students enrolled in approved degree or certificate programs. The length of this grant is limited to 6 full years or 12 full time semesters.

Federal Supplemental Education Opportunity Grants (FSEOG): A limited number of students who demonstrate financial need and whose circumstances justify financial assistance in addition to the Pell Grant may be eligible for this grant. Students must be enrolled for at least six semester hours of college credit course work or the equivalent per semester.

TEXAS Grant (Toward Excellence, Access, and Success): This grant is awarded based on eligibility, financial need, and availability of funds. The purpose of the TEXAS Grant program is to provide a grant to enable well-prepared eligible students to attend a public, nonprofit institution of higher education in Texas.

Texas Public Education Grant (TPEG): This grant is awarded based on financial need and availability of funds. Students must be enrolled for at least three semester hours of college credit course work or the equivalent during each semester. No individual award may be more than the student's financial need.

Federal Direct Subsidized Loan: This loan is available to qualified students based upon financial need. Loan limits are published on the GC website and are available in the Office of Financial Aid. The interest rate, determined by the federal government, does not accrue and does not have to be paid while the borrower is enrolled in at least half-time. Repayment usually begins six months after the student graduates, drops below half-time, or leaves school.

Federal Direct Unsubsidized Loan: This loan is not based on financial need and this is available to students who may not be eligible for the subsidized loans or both; but may not exceed the limits, set by the federal government, listed on the GC website. The interest rate is determined by the federal government and begins accruing immediately on the date of disbursement.

Federal Direct PLUS Loan: This loan is available to qualified parents of dependent students, who may borrow up to the cost of attendance minus any other financial assistance. The interest rate set by the federal government and is variable, not to exceed 10%. Repayment of PLUS loans begins within 60 days of the final disbursement. Applicants of this loan must pass a credit check.

Recipients of Veterans Educational Benefits

If you are a veteran, spouse of a veteran or a dependent of a veteran and you are receiving VA Educational Benefits, please check with your financial aid advisor/ counselor before completing the loan process.

Student Employment

All students employed in the Work Study program are required to complete an application for employment and must submit to a background check. Work Study positions are primarily on campus with some community service position as tutors in the public school systems of Grayson County and in libraries. Applications may be picked up in the Office of Financial Aid or downloaded from the Financial Aid page at www.grayson.edu.

Federal Work Study Program: Grayson College provides a limited number of work opportunities for students through the federally funded College Work Study Program. The primary purpose of this program is to provide part-time employment for students attending GC. It is designed for students who demonstrate financial need and who need additional earnings to continue to pursue their studies.

State Work Study Program: This program provides a limited number of work opportunities for eligible students who are Texas residents and enrolled in at least six semester hours of college credit course work.

Return to Title IV (R2T4)

When a recipient of Title IV funds (grant and/ or loan) assistance completely withdraws from an institution during a payment period or period of enrollment in which the recipient began attendance, Grayson College will determine the amount of Title IV grant and/ or loan assistance that the student earned as of the student's withdrawal date (34 CFR 668.22(a)).

- Each student is responsible for withdrawal from their courses if they do not plan to attend. Do not assume your courses will be dropped for nonpayment or nonattendance. A student may owe a balance if they enrolled and

did not withdraw from classes prior to the first class day. It is suggested that students maintain documentation indicating their withdrawal date.

Returns will be distributed according to federal regulation in the following order:

1. Unsubsidized Federal Direct Stafford Loans.
2. Subsidized Federal Direct Stafford Loans.
3. Federal Direct PLUS Loans Received on behalf of the student.
4. Federal Pell Grant.
5. FSEOG Program Aid.

Students receiving Title IV funds, who subsequently completely withdraw from or fail all their courses, may be required to return a portion of the federal financial aid they received. Only the percentage of aid earned (determined by the percentage of time they attended) will be eligible for retention on the student's behalf. Any aid that is not earned must be returned to its source. If there is a student account balance resulting from an R2T4 adjustment, the student is responsible for payment. Further details can be obtained from the Office of Financial Aid. If a student owes a repayment to the Department of Education, they may call DOE Collections at 1-800-621-3115. If a balance is owed to the Grayson College, you may contact the Business Office at 903-463-8718.

Rehabilitation Assistance

The Department of Rehabilitative Services (DARS) offers assistance with tuition and required fees to students, who have certain physical or emotional disabilities, provided the vocational objective selected by the student has been approved by the appropriate representative of the commission. DARS offers other rehabilitation services to assist students with disabilities to become employed. Application for assistance must be submitted to the local DARS office.

Scholarships

Scholarship applications and information may be printed from the internet by accessing www.grayson.edu and visiting the financial aid home page. Please note that all scholarship recipients are required to complete the FAFSA or Income Affidavit, making sure to use Grayson's School Code: 003570. The priority deadline for scholarships is March 15th prior to the upcoming award year. Scholarship applications are accepted year round.

Please visit the Grayson Foundations website at www.grayson.edu for a full list of the scholarships available from GC.

Exemptions

Visit www.collegefortexans.com for a review of State Exemptions. A few of the exemption that are processed and available at GC are listed below:

Hazelwood Tuition Exemption:

Veterans, who, at the time of entry into the U.S. Armed Forces:

- Were Texas residents,
- Designated Texas as Home of Record, or
- Entered the service in Texas
- Have served 181 days of active military duty, as indicated as "net active service" (the sum of 12(c) and 12(d) on the DD214).
- Have received an honorable discharge or separation or a general discharge under honorable conditions.
- Have no federal veteran's education benefits, or have federal veterans education benefits dedicated to the payment of tuition and fees only; such as Chapter 33, for a term or semester enrolled that do not exceed the value of Hazelwood benefits(Pell and FSEOG are not relevant),
- Are not in default on a student loan made or guaranteed by the state of Texas, and
- Enroll in classes for which the college receives tax support (i.e., a course that does not depend solely on student tuition and fees to cover its costs), unless the college's governing board has ruled to let veterans receive benefit while taking non-funded courses.

Children and spouses of veterans who, at the time of entry into the U.S. Armed Forces:

- Were Texas residents,
- Designated Texas as Home of Record, or
- Entered the service in Texas.
- Have a parent or is the spouse of a veteran of the U.S. Armed Forces, Texas National Guard, or Texas Air National Guard who died as a result of service-related injuries or illness, is missing in action, or became totally disabled for purposes or employability as a result of service related injury or illness,
- Have no federal veteran's education benefits, or have federal veterans education benefits dedicated to the payment of tuition and fees only; such as Chapter 33, for the term or semester enrolled that do not exceed the value of Hazelwood benefits (Pell and FSEOG are not relevant), and
- Are residents of Texas as of the term or semester in which they are enrolled.

The benefit may not be used for correspondence courses unless the courses are part of the student's degree plan.

Legacy Program

Eligible veterans may assign unused hours of exemption eligibility to a child under certain conditions. To be eligible the child must:

- Be a Texas resident,
- Be the biological child, stepchild, adopted child, or claimed as a dependent in the current or previous tax year,
- Be 25 years or younger on the first day of the semester or term for which they exemption is claimed (unless granted an extension due to a qualifying illness or debilitating condition), and
- Make satisfactory academic progress in a degree certificate, or continuing education program as determined by the institution

If a child to whom hours have been delegated fails to use all of the assigned hours, a veteran may reassign the unused hour that are available to another depend child.

Veteran's spouses are not eligible to receive a transfer of unused hours.

Valedictorian Exemption: Available to all Texas public high school valedictorians.

Tuition Exemptions: Are available for blind or deaf students, children of disabled firemen, peace officers, and other as shown on www.collegefortexas.com. Certificates of exemption must be presented at the time of enrollment.

Additional information required: satisfactory progress, pro-rata refunds, and applications for all financial aid and scholarships may be obtained by contacting the Office of Financial Aid or accessing the financial aid home page at www.grayson.edu and choosing the Financial Aid link. To review the status of your file or the amount of your awards and cost, visit www.grayson.edu and access My Viking.

Grayson College's Office of Financial Aid accepts no responsibility for billings, refund checks or any correspondence from this office that is sent to an incorrect address or difficulties caused by the postal service or other delivery methods.

Office of Financial Aid

Grayson College

6101 Grayson Drive

Denison, TX 75020

(903) 463-8794

Veterans Administration Benefits

Grayson College provides a Veteran Services Office to assist the enrollment of veterans, war orphans, war widows, and totally disabled veterans, their wives and children. This office serves as a liaison between Grayson College and the Veterans Administration and is located in the Student Life Building on the Bridge. Advisement for all veterans programs is available in the Veteran Services Office. Please contact the Veteran Services Coordinator or check the website for information concerning the required documents.

Requirements to receive maximum education assistance vary depending upon program eligibility. Students should consult the Veteran Services Office or website prior to enrollment.

Tutorial service is available to veterans and other eligible persons.

The Veterans Administration requires veterans and other eligible persons to define and follow predetermined degree plans as reflected in the College Catalog.

In order to receive VA educational assistance payments for those courses taken at Grayson College which are part of another institution's degree plan, students must ascertain that those courses are listed on that institution's letter of acceptance with degree plan stated.

The official college transcript will provide a final record of the credits attempted by the veteran each semester. Official drop dates are published in the Schedule of Classes. The last date of attendance in a course which was dropped will be determined from the date submitted at the office of Admissions and Records. Final grades are submitted by the faculty and maintained on permanent file in the Office of Admissions and Records.

Veterans Administration rules require that the College interrupt training and report the names of veterans who are placed on scholastic suspension and those who are not making satisfactory progress.

A veteran who applies for admission to Grayson College must submit official transcripts from all previous colleges attended. If any such credit earned is applicable toward the degree plan of the student, it will be approved by the appropriate academic dean.

Minimum Standards of Progress for Students Receiving VA Educational Benefits

Semester Hour Degree or Certificate Programs

Satisfactory Progress:

A student who is receiving VA educational benefits must maintain a cumulative grade point average (GPA) of 2.00 or higher to be considered making satisfactory progress.

Probation:

A student who fails to achieve a cumulative GPA of 2.00 or higher after one semester shall be placed on probation.

Unsatisfactory Progress:

A student on probation who fails to achieve a current GPA of 2.00 or higher at the end of the first probationary period shall be reported to the Veterans Administration Regional Office as making unsatisfactory progress.

A student who fails to achieve a cumulative GPA of 2.00 or higher at the end of the second consecutive probationary period shall be reported to the Veterans Administration Regional Office as making unsatisfactory progress. The student will be evaluated for satisfactory progress at the end of each semester completed.

Probation:

A veteran student will be placed on academic probation when the cumulative GPA falls below 2.0. The student will be required to successfully complete Learning frameworks once the probation has been placed on the student record.

Suspension:

A veteran student on probation who fails to achieve a current GPA of 2.00 or higher at the end of the first probationary period shall be reported to the Veterans Administration Regional Office as making unsatisfactory progress. A student placed on academic suspension will not be certified for one long semester when the cumulative GPA remains below 2.00. A student has the right to appeal the suspension. After remaining out of school for one long semester, a student may be readmitted on academic probation. The student must show academic progress by achieving at least a 2.50 GPA for the attempted semester.

Last updated: 08/16/2017

Grayson College

6101 Grayson Drive (Hwy. 691) Denison, TX 75020
(903) 465-6030

Grayson College Course Catalog

General Academic Policies

- [General Academic Policies](#)

Admission Requirements

The College reserves the right to require vaccinations, physical examinations, and admission examinations at the student's expense.

In order for students to charge tuition, books, or dorm to federal financial aid programs, all application materials and all required transcripts must be submitted to the Admissions and Records Office by the priority dates published in the Schedule of Classes. Failure to meet these deadlines will result in delays in receiving the aid.

Students may be admitted to Grayson College by one of the following methods:

1. **U.S. High School Graduate.** A graduate of an accredited U.S. high school who has never attended an accredited college or university must submit an official transcript from the U.S. high school showing the date of graduation. The high school must be accredited by the Texas Education Agency, the Southern Association of Colleges and Schools or the equivalent accrediting agency for other states and regions. (A graduate of a non-accredited or foreign high school must apply for admission by Individual Approval.)
2. **Individual Approval.** An individual eighteen years of age or older who does not have a U.S. high school diploma or G.E.D. or who is a graduate of a non-accredited or foreign high school may apply for admissions on individual approval. International students with an F-1 visa are admitted on the basis of their TOEFL or ELS scores. TOEFL scores must be no more than five years old to be valid. Students admitted under this policy are not eligible for Title IV. Anyone admitted without a GED or high school diploma will be strongly encouraged to complete the GED during the first year of his/her enrollment at Grayson College.

3. **Transfer from Another U.S. College:**

During their initial term at GC, transfer students who desire admission must provide official transcripts from all colleges attended on or before the census date. A hold will be placed if transcripts are not received by the census date. Students applying as a transfer must have transferable college credit from a U.S. regionally accredited college. Developmental courses and continuing education courses are not considered transferable.

Official test scores must be submitted prior to registration. Transfer students must follow Texas Success Initiative policies for demonstrating college readiness.

Students who have been suspended for any reason from another college will not be eligible for admission at Grayson College until they are eligible to return to their previous college or they obtain approval for admission from their Instructional Dean, Director of Counseling Services, or the Registrar. Grayson College accepts college level credits from regionally accredited institutions provided that the courses were completed successfully.

When transfer students apply for graduation, the Office of Admissions and Records, with assistance from Instructional Deans, determines whether or not transferred courses meet degree requirements.

4. **GED Admission.** An applicant who has passed the GED test may be admitted to Grayson College by providing the Admissions and Records Office with a copy of the test scores or GED certificate.

5. **High School Students.** To be eligible for concurrent high school and college enrollment, high school students must:

- (a) Juniors must have passed sections of the TSI Assessment. Seniors must have demonstrated college readiness skills with exit-level TAKS scores or TSI Assessment.

- (b) Students from high schools as well as home schools must provide an official transcript which includes:

- Name and Date of birth
- Grade level
- Academic history up to and including graduation date
- Letter or percentile grades
- Explanations of grading scale
- Name of home schooling administrator

Prospective concurrently-enrolled high school students must demonstrate college readiness skills based on scores on the exit-level TAKS test, ACT, SAT, or TSI Assessment. Dual credit high school students may concurrently enroll at GC only in courses intensive in skill areas for which the students demonstrate college readiness scores.

6. **Readmission.** Applicants seeking readmission to Grayson College, having not attended the previous 12 months must reapply through the Admissions and Records Office. Applicants who have attended any other colleges since their last enrollment at Grayson College must submit official transcripts from those colleges along with scores from a state-approved assessment.

7. Some specialized programs have additional admission requirements which are listed in the program descriptions under each division.

8. Admission Requirements for Non-Citizen Students

It is the goal of Grayson College to make educational opportunities available to all students who can benefit from its programs. With such a goal, however, is the commensurate responsibility to make every effort to assure that students can function within the institution with a reasonable chance for success. The purpose of the admissions requirements for international students, therefore, is to recognize the difficulties students educated in a non-English speaking culture might have, and to establish guidelines designed to afford international students a reasonable assurance that they can function within an English speaking institution of higher learning.

The following requirements apply to students who are not U.S. citizens:*

1. **Legal Immigrant:** Submit copy of I-551, then meet same admission requirements as U.S. citizen.
2. **Refugee:** Submit copy of Immigrant I-94 indicating Refugee Visa, then meet same admission requirements as U.S. citizen.
3. **Non-Immigrant Alien:** The following requirements apply to all applicants holding visa category A-L issued by the Immigration and Naturalization Service and to all non-citizen applicants who do not qualify for admission as Immigrant or Refugee.
 - A. Application for Admission.
 - B. Non-refundable \$100 US Application/Evaluation Fee.
 - C. Deposit at Grayson College of sufficient funds to cover anticipated tuition/fees and room/board expenses (\$16,500.00 US).
 - D. Test of English as a Foreign Language (TOEFL) with a minimum score of 500 on paper-based testing (or 61 Internet-based IBT).

The following exceptions apply to the English proficiency requirement:

Students from Australia, New Zealand, the British Isles, and the English speaking provinces of Canada are exempt. Students from other countries where English is the primary language of instruction and the language spoken at home and by the indigenous population may petition for an exception.

Students who have earned a baccalaureate degree from a regionally accredited United States college or university are exempt.

Students who have earned a high school diploma from a United States high school and have passing scores on a state-approved assessment are exempt.

E. Transcripts: Entering Freshman: Certified English translation of high school transcript showing completion of secondary school.

Transfer from Foreign College or University: Certified English translation of transcript and/or syllabus reflecting course work and/or program completed at college or university outside of U.S. Grades received must reflect satisfactory performance.

Transfer from U.S. College or University: Official transcript from each college or university attended reflecting student is in good standing.

F. A physician's report or health certificate (in English or with English translation) certifying that the person has no contagious diseases and is in good physical condition; if applicant is taking medication routinely, the medication and the reason for taking it will be listed.

G. All international students must submit proof of medical insurance.

H. Compliance with all requirements and procedures established for visa category by Immigration and Naturalization Service.

I. Application and documents must be submitted at least thirty (30) days prior to registration.

J. While GC will comply with all policies and procedures of the Student Exchange Visitor Information System (SEVIS) of the Immigration and Naturalization Service, the ultimate responsibility that all regulations are met lies with the student.

4. Alien Concurrent Enrollment: Alien students enrolled at an area college or university must submit all items except financial statement and deposit. Permission for Alien Concurrent Enrollment form must be completed by international student advisor of the other institution specifying course(s) to be taken.

*A \$100 international application/evaluation fee will be required of all noncitizens without an I-551.

Admission Requirements for All Students

All materials required for admission to Grayson College should be on file in the Admissions Office prior to registration. A new or transfer applicant whose file is incomplete at the time of registration will be allowed to register but will be placed on a hold until all official transcripts have been received. A student who does not submit required transcripts before the census date of the first semester of enrollment will be placed on hold and all future registrations and financial aid will be blocked until the admission file is complete. Books and financial aid cannot be applied to a student's account until their admissions file is complete and all required documentation is received. A readmission

applicant will not be allowed to re-enroll if the admission file was incomplete during the previous enrollment. No student is permitted to re-enroll or receive official transcripts until all admission requirements have been met.

Correspondence pertaining to admission should be addressed to Office of Admissions and Records, Grayson College, 6101 Grayson Drive, Denison, Texas 75020.

Please refer to assessment requirements for other factors that affect registration.

Admission Procedure

Applicants must complete the following steps to begin taking credit classes at GC. Upon successful completion of the steps below, you are considered:

1. Complete the GC application through Apply Texas website and submit admission requirements as listed above.
2. Enroll in and complete GC College 101 in the Grayson College Student Portal.
3. Determine your TSI (Texas Success Initiative) status and schedule an assessment if required. All GC students, unless exempt or TSI waived, must take an approved test for TSI before enrolling. Results of these tests will not be a condition of admission but will be used for placement purposes. See the Texas Success Initiative Requirements section of the catalog for additional information.
4. Meet with an advisor to discuss academic plan.
5. Select/schedule classes on line
6. Pay for classes by the deadline listed in your My Viking.

Note: Admission to GC does not guarantee enrollment into workforce programs that maintain additional entrance requirements.

Admission Requirements for Health Science Students

1. Application — Application forms for individual programs must be completed and submitted with high school or college transcripts or copy of GED scores to specific program directors. Applicants must be eligible for admission to GC.
2. Testing — Acceptable scores on assessment of basic skills as required by the College and individual program requirements.

After Acceptance to individual programs students must submit:

1. Completion of required healthcare provider form and negative tuberculosis test
2. Current CPR certification (American Heart Health Care Provider level).
3. Documentation of required immunizations.
4. Prior to clinical course rotations, students must pass a drug screen and criminal background check (at the student's expense and completed as scheduled through a GC approved company). Criteria that prevent attendance at clinical sites and/or require withdrawal from the course are stipulated in the related program policies.

Assessment for All Students

Because Grayson College wants students to experience academic success, new students are asked to take reading, writing, and mathematics assessments to determine levels of college readiness and, if necessary, to place students in courses designed to prepare students for college. In accordance with the Texas Success Initiative, students are required to take a state-approved assessment prior to enrollment at GC or to demonstrate college readiness with performance on the ACT, SAT, or TAKS test. Students who enroll in Level 1 Certificate programs are exempt from assessment. Students with deficient scores or who are not otherwise exempt must take the TSI Assessment, which is aligned to the Texas College and Career Readiness Standards. It offers placement scores and a diagnostic profile of students' college readiness and/or adult basic education levels. The TSI Assessment is offered frequently throughout the week, and the testing schedules can be found on the Testing Center's Webpage; a link to this page can be found on the Grayson College homepage. All students will be required to complete a Pre-Assessment Activity before starting their exam, which is primarily designed to help students perform better on the assessment. The test fee is \$25. A limited number of assessment vouchers may be available to students qualifying for financial aid. Students with a disability are not exempt from Texas Success Initiative assessment requirement but may receive testing accommodations with appropriate documentation. Assessment scores do not affect admission to the College but are used in the advisement process for course selection. Students demonstrating weak basic skills on a state-approved assessment will receive an individualized Academic Success Plan, which describes the options available for each student to demonstrate college readiness in reading, writing, and math. Test scores needed to demonstrate college readiness are:

TSI Assessment

Mathematics	350
Reading	351
Writing	Essay score of 5, or an essay score of 4 and a multiple choice score of 363

Currently, students are exempt from the assessment requirements if they meet one of the following criteria. Students must present proof of exemption at the time of registration.

Associates or Bachelor's degree or higher from an accredited institution.

College credit hours within the past five years from a private or an out-of-state public institution with grades of A, B, or C in approved courses in all three skill areas.

Eligible test scores indicated below:

ACT (within 5 yrs.)	COMPOSITE	MATH	ENGLISH
	23	19	19
SAT (within 5 yrs.)	COMPOSITE	MATH	CRITICAL RDG
	1070	500	500
TAKS Exit-Level Test (within 3 yrs. and on first attempt in each subject)	ELA	MATH	ESSAY
	2200	2200	3 or 4

Assessment waivers are available to students who meet one of the following criteria.

Personal enrichment students enrolling in one to two courses on the personal enrichment list for a maximum of two semesters.

Temporary private or out-of-state college transfer students enrolled at their other institution the previous full semester and planning to return after one semester at GC or temporary private or out-of-state college transfer student dually enrolled at GC and an out-of-state or private institution, but not seeking a degree from GC. Students must demonstrate enrollment at other school during the previous long semester each time they register at GC.

Students enrolled in one-year certificate programs (15-42 credits).

Students who are serving on active duty as a member of the armed forces or U.S. reserve component and have been serving during the past three years preceding enrollment. Please note that some academic courses require students to demonstrate college readiness before enrolling in them.

Students who on or after August 1, 1990, were honorably discharged, retired, or released from active duty as members of the armed forces of the United States or the Texas National Guard or service or from a U.S. reserve component. Please note that some academic courses require students to demonstrate college readiness before enrolling in them.

Academic Success Plan

Students who are not TSI Exempt must demonstrate College Readiness for reading, writing, and math with EITHER:

Passing scores on the TSI Assessment for reading, writing, **and** math

A grade of A, B, or C in an exit-level course (Math 0340, INRW 0320)

When you are "college ready" in all three areas, you will have completed Texas Success Initiative requirements and will no longer be required to enroll in developmental classes.

Mathways: College level math courses are designed to serve the curriculum needs of unique degrees, and Math 0420 will prepare the student for most of these options; however, many science, technology, engineering, and math (STEM) degrees will require the completion of College Algebra (Math 1314), and students pursuing those degrees will be advised to enroll in Math 0340 to prepare for the level of math covered in College Algebra. Please review your degree plan and/or speak with your advisor for more guidance.

Placement in Classes

The developmental classes are designed to help you attain "college readiness" as fast as possible while maintaining a realistic pace of achievement. If you are not "college ready" in reading, writing, or math, your advisor will "place" you in a level or pathway where you will be learning new material (or reviewing material that you may have studied several years ago and have forgotten). Each course listed below (in the Course Descriptions section) requires one semester to complete. "Completion" means that you have earned a grade of C or higher. Under unique situations, and with the approval of the Academic Dean, or designee, students may be or become eligible for a "Non-Course Based Option" (NCBO), which pairs appropriate developmental instruction with an appropriate college level course (e.g., MATH 1314 or ENGL 1301). Eligible students will be invited by the college to participate in this option.

To ensure that you are enrolled in the correct level of developmental course, your developmental professors may give you an in-class placement test during the first week of classes. Your professors will notify you if you need to change your schedule. If you have any questions about being in the appropriate level of course, talk to your professor during the first week of class.

You are required to enroll in developmental courses every semester until you demonstrate college readiness in all three skill areas. We require this because we want you to have the skills you need to stay in college and make good grades in your courses until you have met your personal goals for a college education. Students are limited by the state to a maximum of 27 hours of developmental coursework (including W's and F's), so be sure to study conscientiously in every developmental course.

Attendance

You are required to attend your developmental classes. If you do not attend your developmental classes, in accordance with the course's attendance policy, you may be dropped from that course by your instructor and will be considered out of compliance with your Academic Success Plan. Your Academic Success Plan may have allowed you to enroll in academic courses requiring a skill area that is being supported by your developmental course work. Students who are out of compliance with their Academic Success Plan will be required to enroll in appropriate self-paced developmental classes to regain compliance that semester and re-establish that academic support; failure to do so will result in being barred from future enrollment in academic course work until the TSI/College-Readiness requirements are met in appropriate skill areas (or, under special situations, permission is granted by the Assistant Dean of Academic Studies).

Retesting

You may retest at any time; however, we recommend that you work closely with developmental professors to determine when you are prepared to pass on the retest. Students who would like to take the regularly scheduled statewide THEA test may sign up for it on the Internet at www.thea.nesinc.com. If you are preparing to retest you may want to try the free practice test on-line at www.thea.nesinc.com.

Check with the GC Testing (903-463-8724) for information about scheduling a test date.

Advising

Grayson College strongly encourages all students, regardless of academic skill level, to seek individual academic advising prior to scheduling classes in My Viking. The Student Service office is open day and evening to students with questions about course transfer, degree planning, transcript evaluation, other college catalogs and other facets of college life. New, transfer, and students who have dropped out of Grayson College over one year are required to participate in New Student Orientation, College 101, offered by Student Services.

Professionally trained counselors and advisors are available to all students and are prepared to assist with career planning, vocational interest tests, college information, college orientation, advising and evaluation of degree audit, transcript transfer evaluation, and personal counseling. Veterans' receiving educational benefits should see Veterans' advisor located in the Veterans Affairs Office.

The following students are required to receive academic advising:

1. Students who are entering GC for the first time. New students should contact the Student Services office for orientation and degree requirements.
2. Students who have not met assessment requirements.
3. Students who are required to be enrolled in developmental courses.
4. Students who are on academic probation and/or students who are returning from academic suspension.
5. Students who desire to change an academic major, update degree audit, or transfer institution.
6. Students who are military veterans eligible for veteran's educational benefits will see an academic advisor located in the Veterans Affairs Office.

Faculty advisors are assigned to all students each semester. Advisors assist students with career options, academic requirements, transcript evaluation, and campus and community support services. Advising activities are designed to assist students in the successful completion of their needs and goals. Students who need additional career assistance should seek assistance from the Office of Students Services. Student Services offers information, assistance, and guidance and all services are provided free of charge to current students, alumni, and community agency referrals.

Academic Fresh Start

1. Students may, at the time of their application for admission to Grayson College, file for Academic Fresh Start in the Admissions and Records Office. All academic course credits or course grades earned exactly ten or more years prior to the starting date of the semester in which the applicant seeks to enroll will not be considered in the calculation of the grade point average.
2. A student will forfeit the use of all credits earned prior to enrollment under the Academic Fresh Start Policy. Courses taken prior to this time will not be used in the calculations of the student's grade point average.
3. The student's record will be inscribed with the notation "Academic Fresh Start Granted (date)."
4. Policies concerning Academic Fresh Start are applicable only to Grayson College. They do not pertain to financial aid history or accumulated award limits. Other colleges may not recognize the reprieve.
5. To request Academic Fresh Start a student must submit a completed application for admission, a written petition for Academic Fresh Start, and all transcripts or prior college or university work to the Admissions, Records Office prior to the beginning of the semester of application.

Testing Service

The Testing Center provides testing services to meet a wide range of needs. The Testing Center assesses students' basic skills for planning successful academic programs through the administration of the Texas Success Initiative (TSI) Assessment. As a support for Grayson College students and faculty, the Testing Center administers make-up exams and exams for internet and hybrid courses. Testing services are extended to the community by the administration of Pearson Vue academic and IT examinations (including GED exams), ACT exams, CLEP (College

Level Equivalency Program) exams, Prometric's Automobile Service Excellence exams, Fisdap (EMT Entrance Exam) and by providing proctoring services for other colleges/universities/agencies. The Testing Center assists GC programs by administering admissions/certification exams such as the HESI Admissions Exam for Associate Degree Nursing, Vocational Nursing, and Radiology programs and TCOLE (Texas Commission on Law Enforcement) exams.

Additional services include the administration of tests for students with testing accommodations approved by the Coordinator of Services for Students with Disabilities. Testing Center staff may be able to provide copies of past scores or information on obtaining score reports. Testing services are located in the Success Centers on the Main and South Campuses. The Testing Center is certified by the National College Testing Association and follows the NCTA standards and guidelines.

Dual Credit

The Dual Credit program at Grayson College allows high school junior and senior students to earn high school and college credits simultaneously. Through dual credit agreements, the College and the public school districts in Grayson and Fannin Counties have selected courses that meet both high school and College learning objectives. Depending upon the school district, these classes are offered at local high schools, the South Campus in Van Alstyne, and on the main Grayson College campus. Students interested in participating in this program must meet Texas Success Initiative assessment requirements appropriate for each course or demonstrate college readiness with ACT, SAT, or TAKS scores. To enroll in these classes, students must apply to the college, complete a dual/concurrent permission form, register, and pay tuition and fees for the courses. Students are also required to purchase course textbooks. Interested students should contact their high school counselors or principals, attend a GC Dual Credit Parents' Night, or contact the Grayson Dual Credit Program. Students must meet eligibility requirements set by their high schools to ensure that they receive high school credit for particular courses.

Graduation Requirements

Associate Degree Requirements

To graduate from Grayson College with an Associate degree, students must:

1. Complete an Application for Graduation form in the Admissions Office and submit along with the official Degree Audit, including the advisor's signature. It is the responsibility of the student to know the application deadline as published in the schedule of classes.
2. Complete the 60-72 semester hours credit as required for the respective Associate of Science or Associate of Applied Science degree plan.
3. Have an overall Grayson College grade-point average of 2.00.
4. Have earned at least 25% of the total required semester hours at Grayson College.
5. Have earned at least fifteen (15) semester hours in General Education Core courses for an Associate of Applied Science Degree and at least forty-two (42) semester hours in General Education Core courses for an Associate of Science Degree.
6. Successfully demonstrate college readiness in reading, writing, and math.
7. Submit course substitutions to the Admissions Office. These substitutions must be approved by the division deans.
8. Complete Capstone requirement for an Associate of Applied Science.

For graduation purposes, students may use degree plan requirements of the catalog in effect when first enrolled at Grayson College, or any subsequent catalog in effect when they were enrolled, provided that it is dated no more than five years previous to the graduation date on the Application for Graduation, and the major has not changed.

Certificate Requirements

To receive a certificate from Grayson College, students must:

1. Complete an Application for Graduation form in the Admissions Office and submit along with the official Degree Audit, including the advisor's signature. It is the responsibility of the student to know the application deadline as published in the schedule of classes.
2. Satisfactorily complete the courses in the certificate program with a 2.00 grade point average.
3. Successfully complete fifteen (15) credit hours in residence at Grayson College.
4. Students receiving Exit Point II certificates of 43 hours or more cumulative credits must have passing THEA scores or the equivalent.
5. Complete Capstone requirement.

Graduation with Honors

To be graduated with honors, a student must have a cumulative grade point average of 3.7 based on GC hours only.

*Cum Laude 3.70-3.84 GPA

*Magna Cum Laude 3.85-3.99 GPA

*Summa Cum Laude 4.00 GPA

To be graduated with honors, a student receiving a Certificate of Completion must make a grade of "A" for all courses in the program.

Graduation Requirements for Health Science Students

1. A grade of "C" or better in each major course.
2. A GPA of 2.00.

Last updated: 06/23/2017

Grayson College

6101 Grayson Drive (Hwy. 691) Denison, TX 75020
(903) 465-6030

Grayson College Course Catalog

Academic Regulations

- [Academic Regulations](#)

Credit for Courses

Credit is granted on the basis of semester hours at Grayson College. Generally, a semester hour of credit is given for satisfactory performance in one lecture period of 50 minutes per week for a 16-week semester or equivalent. Two hours of laboratory work are usually considered to be the equivalent of one hour of lecture.

Credit for Transfer Courses

Credit for courses in which a passing grade ("D" or better) has been earned may be transferred to the college from colleges and universities accredited through regional associations. Appropriate Grayson College personnel will complete course-by-course evaluations as needed for degree or program planning. See the Counseling Office for a degree audit once all official transcripts have been received.

Individual courses transferred will not be posted to the student's record. Official transcripts from all higher education institutions must be on file in the Registrar's Office. Generally, the college will not accept junior and senior level coursework as transfer credit unless there is an approved articulation agreement with the specific four-year college or university.

Credit for Foreign Courses

Students requesting credit for such coursework must first apply for admission to GC and enroll in courses. To receive transfer credit from foreign institutions, students must bring an official copy of their college transcript and a certification and translation report from WES, AACRAO, or FCSA to the GC Admissions Office. Certification and translation services other than WES, AACRAO, or FCSA will not be accepted. The cost for certification and translation must be paid by the student.

When students provide their transcripts, the report from WES, AACRAO, or FCSA, and any course descriptions and syllabi to the admissions office in a timely manner, GC will determine the total number of semester transfer credits by the end of the first semester of enrollment at GC. To avoid additional costs and delays in posting information, students are encouraged acquire these materials promptly. Grayson College does not accept foreign coursework for courses in English and speech.

For the purpose of the Texas Success Initiative, students who have completed the equivalent of a U.S. associates or bachelor's degree from an accredited college or university outside the United States are exempt from placement testing. In order to receive this exemption, students must present a certified, translated copy of their foreign credential, which must be completed by WES, AACRAO, or FCSA along with an official college transcript. Foreign students who have not completed a degree are required to assess on THEA or Compass before enrolling in courses that lead to an associate degree. Students enrolling in certificate programs must complete the required placement testing for the certificate they are seeking.

Resolution of Transfer Disputes

The following procedures shall be followed by public institutions of higher education in the resolution of credit transfer disputes involving lower-division courses:

- (1) If an institution of higher education does not accept course credit earned by a student at another institution of higher education, the receiving institution shall give written notice to the student and to the sending institution that transfer of the course credit is denied.
- (2) The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Board rules and/or guidelines.
- (3) If the transfer dispute is not resolved to the satisfaction of the student or the sending institution within 45 days after the date the student received written notice of denial, the institution whose credit is denied for transfer shall notify the Commissioner of the denial.

The Commissioner of Higher Education or the Commissioner's designee shall make the final determination about the dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.

Student Classification

Academic Level. Students are classified as freshmen, sophomore or special students according to the amount of work they have completed. A freshman is one who has completed less than thirty semester hours of college credit; a sophomore is one who has completed at least thirty but less than sixty semester hours of college credit. A student who has earned sixty or more semester hours is classified as a special student.

Student Load

Academic Load. In the long terms (fall or spring), students who are enrolled for twelve or more semester hours are considered full-time students. In each of the summer sessions, students who are enrolled in six or more semester hours are considered full-time students.

Long Sessions. The normal load during the regular semester is six (6) academic courses or from fourteen to eighteen semester hours. Credit hours taken during a 1st Half-Session and 2nd Half-Session are added to classes taken during the Long session to determine academic loads. Students who wish to enroll in nineteen or more credit hours must obtain the permission of either the Director of Counseling Services, Dean of Academic Instruction, or the Director of Admissions and Records.

Summer Session. The normal load during each term of the summer session is six semester hours. The maximum load for a six-week term is seven semester hours. Students may not earn in excess of fourteen semester hours during the two-term summer session, including summer evening sessions.

Summer Evening Session. The normal load for the eight-week term is two academic courses. Students who wish to take additional courses may do so upon approval of either the Director of Counseling Services, Dean of Academic Studies, or the Director of Admissions and Records.

Mini Session. Students cannot enroll in more than one course during the minimesters. The minimester course does not count toward academic load for a fall or spring session.

Mid Term Session. The normal load for the eight-week term is two academic courses. However, the normal load during the regular long semester is six (6) academic courses or from fourteen to eighteen semester hours. Credit hours taken during a 1st Half-Session and 2nd Half-Session are added to classes taken during the Long session to determine academic loads. Students who wish to enroll in nineteen or more credit hours must obtain the permission of either the Director of Counseling Services, Dean of Academic Instruction, or the Director of Admissions and Records.

Course Load (ECC Local). The normal course load for the fall or spring semester shall be 15 semester hours. Course loads in excess of 16 semester hours shall require approval by the vice president for student services. The maximum course load shall be no more than 21 semester hours.

The normal course load for the summer session shall be six semester hours for each six-week term or 12 semester hours for a full summer semester. Course loads in excess of six semester hours per term or 12 semester hours per summer semester shall require approval by the vice president for student services. The maximum summer credit hours earned shall be eight semester hours for one term or 16 semester hours for a full summer semester.

Limitation on Number of Dropped Courses. A College District student shall not be permitted to drop more than six courses taken while enrolled at the College District or another public institution of higher education.

Exceptions for Good Cause. A student shall be permitted to exceed the limit on the number of dropped courses for any of the following reasons:

1. A severe illness or other debilitating condition that affects the student's ability to satisfactorily complete a course;
2. The care of a sick, injured, or needy person if providing that care affects the student's ability to satisfactorily complete a course;
3. The death of a member of the student's family;
4. The death of a person who has a sufficiently close relationship to the student;
5. The student's active military duty service;
6. The active military service of a member of the student's family or a person who has a sufficiently close relationship to the student; or
7. A change in the student's work schedule that is beyond the student's control and affects the student's ability to satisfactorily complete the course.

Auditing a Course

When space is available, persons wishing to audit a course may do so by completing an application and meeting the admission criteria stated in the Admissions section of the Catalog. Full tuition will be charged for auditing a course. Auditors must complete the Request for Audit form in the Admissions office on or before the official census date published in the Schedule of Classes. After the official census date, a student's audit status may not be changed. Students auditing courses will receive grades of AU (Audit).

Class Attendance

Academic success is closely associated with regular class attendance and course participation. All successful students, whether on campus or online, are expected to be highly self-motivated. All students are required to participate in courses regularly and are obliged to participate in class activities and complete and submit assignments following their professors' instructions. Students taking courses during compressed semester time frames such as mini-mester, summer sessions, and mid-semester should plan to spend significantly more time per week on the course. Responsibility for work missed because of illness or school business is placed upon the student.

Instructors are required to include in their syllabi the attendance policy for the courses(s) they teach. The college considers absences equal to or greater than 15% of the course's requirements to be excessive.

Students enrolled in developmental courses face additional consequences for poor attendance. See the Attendance section of the Academic Success Plan.

In online courses, a student shall be considered present and/or having attended in he/she has completed one of the following:

- Student makes a post to a class discussion
- Student submits a written assignment or project via file upload
- Student takes a quiz or exam
- Student submits work through a third party software such as Pearson or McGraw Hill, and the grade is transferred to the LMS Gradebook
- An email from the student showing that the student initiated contact with a faculty member to ask a question about the academic subject studied in the course

Student Absences on Religious Holy Days

Grayson College will allow students who are absent from class for the observance of a religious holiday to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. The form for requesting absence for holy days may be obtained from the Vice President for Student Services.

“Religious holy day” denotes a holy day observed by a religion whose places of worship are exempt from property taxation under section 11:20, Tax Code.

A student who is excused under this section may not be penalized for the absence, but the instructor may appropriately respond if the student fails to satisfactorily complete the assignment or examination.

Dropping a Class

A class drop means that a student has dropped one or more classes but remains enrolled in other classes for the term. During periods of early registration, students who enroll on-line using My Viking may also drop one or more classes via the same method. After the deadline for schedule changes passes, all drops must be handled by the student contacting each professor or program director either in person or via email for the course(s) they wish to drop. After contact is made, students should proceed to Admissions and Records for further instructions. Students cannot drop classes on-line after the end of schedule changes for the semester. No drop requests will be accepted after the drop deadline for the semester and the student will receive the grade earned thus far according to the course requirements. The Office of Admissions and Records does not accept drop deadline appeals. Students may not drop courses at Grayson College over the phone.

SB 1231 State of Texas Limit on Drops

(ONLY affects drops occurring after census date)

Under section 51.907 of the Texas Education Code, “an institution of higher education may not permit student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education.” This statute was enacted by the State of Texas in spring 2007 and applies to students who enroll in a public institution of higher education as first-time freshmen in fall 2007 or later. Any course that a student drops is counted toward the six-course limit if (1) the student drops a course after census date or (2) the student is not dropping the course in order to withdraw from the institution. Some exemptions for good cause could allow a student to drop a course without having it counted toward this limit, but it is the responsibility of the student to establish that good cause before the drop. Students with questions should contact the Counseling Office or the Office of Admissions & Records for more information before dropping a course!

Withdrawing from College

A withdrawal indicates a student is no longer enrolled in any courses at the College for the term. During periods of registration, students who enroll on-line using My Viking may also withdraw from school via the same method. Students wishing to withdraw from all courses must first contact their professor or program director in person or via email. After contact is made, students should proceed to Counseling Services for further instructions. Students may not withdraw from Grayson College over the phone.

Grayson College will no longer utilize the grades of WP or WF. Students who withdraw prior to the semester drop deadline will receive a W. The Office of Admissions and Records does not accept withdrawal date deadline appeals.

Merely discontinuing class attendance does not constitute withdrawal from school. Students who do not officially withdraw may be given grades of “F” at the discretion of the instructor.

Change of Schedule

During periods of registration, students who have registered on-line using My Viking may change their schedules via the same method. Students cannot change their schedule or drop a class on-line through My Viking after the schedule change deadline. All students who wish to change their schedules must do so before the end of the schedule change period published in the schedule of classes. After the deadline, classes are dropped in Student Services until the drop deadline for the semester. Classes dropped on or before the official census date of the term will not appear on the student’s transcript.

Credit Award Program

The credit award program is a means by which students may be awarded college credit for past experience or education that is equivalent to courses offered at Grayson College. The learning must be applicable to the student's educational goals. Credit may be awarded by the following methods:

- | | |
|--------------------------------|-------------------------------|
| 1. CLEP | 6. TECH PREP |
| 2. ADVANCED PLACEMENT EXAM | 7. MILITARY TRAINING |
| 3. DEPARTMENTAL EXAM | 8. DANTES |
| 4. INTERNATIONAL BACCALAUREATE | 9. PROFESSIONAL CERTIFICATION |
| 5. CLOCK HOUR CONVERSION | |

Students seeking credit award for tests other than those listed above should check with the Admissions and Records Office. A student may not receive credit award for courses in which he/she has enrolled at GC or any other regionally accredited institution. A maximum of 24 credit hours may be earned through credit award. Credit award is accomplished on a course by course basis. A grade of "P" will be given for the courses earned through credit award. No grade points are associated with the grade of "P." Though credit award may count toward hours needed for graduation at GC, other institutions are not obligated to accept the credit awarded because each institution sets its own policy regarding tests and scores accepted for credit award. Accordingly, students transferring credit awarded at other institutions must meet GC credit award requirements for the credit to be posted at GC. International students may not apply credit award towards the 12-hour enrollment requirement according to the Department of Homeland Security.

Military Service Credit Award

To meet physical education course requirements Grayson College may award up to twelve (12) course credits for military training for all honorably discharged veterans who completed at least two years of service in the armed forces or were discharged because of a disability. GC requires proof of duration of military service and discharge status in order to award the credits.

Additionally, GC will evaluate each military training transcript for course equivalency on a course by course basis. All course equivalency evaluations will be conducted by an academically qualified faculty member. Upon completion of the transcript evaluations, all eligible courses will be transcribed. Transcribed courses may not exceed 75% of the total credit required in the declared degree program. 25% of credit in the declared degree program must be earned by taking courses at Grayson College.

A grade of "P" will be given for the courses earned through military credit award. No grade points are associated with the grade of "P". Though military award credit may count toward hours needed for graduation at GC, other institutions are not obligated to accept the credit awarded. Accordingly, students transferring credit awarded at other institutions must meet GC credit award requirements for the credit to be posted at GC.

Mirror Course Credit Award

GC offers "mirror courses" that allow enrollment into a regular academic credit class through the Continuing Education (CE) department. No formal college admission process is required. Students earn a grade of either "S" for satisfactorily passing course requirements or a "U" for unsatisfactory (failing the class), but receive no academic credit for these mirror courses. However, academic credit may be sought under the following conditions:

- 1. The course in which the student enrolled is equivalent to or the same course taught for credit.
- 1. The student has successfully completed at least 6 credit hours of academic coursework at the time of application for converting the mirror course to credit.
- 1. The request is made no more than 3 years from the start of the semester in which the mirror course was taken.
- 1. Credit may not be granted for courses that have an unmet TSI requirement.

The student's transcript will reflect "P" in the pass/fail grade for satisfactorily completing the course. This course will not be calculated in the student's GPA.

No more than nine credit hours of mirror coursework may be converted to credit.

**AP Credit Award—Grayson College
(Updated Spring 2008)**

AP Test	Minimum Score Requirement	Course(s) Credited
Art History	3	ARTS 1303
1304	4 or 5	ARTS 1303 &
Biology	3	BIOL 1406
BIOL 1407	4 or 5	BIOL 1406 &

Calculus AB Calculus I	3	MATH 2413
Calculus BC 2414 Calculus II	3	MATH 2413 and
Chemistry	3	CHEM 1411
CHEM 1412	4 or 5	CHEM 1411 &
Computer Science A	3	COSC 1336
COSC 1337	4 or 5	COSC 1336 &
Computer Science AB 1337	3	COSC 1336 &
1337, & 2336	4 or 5	COSC 1336,
Economics (Micro) Microeconomics	3	ECON 2302
English Literature	3	ENGL 1301
ENGL 1302	4 or 5	ENGL 1301 &
English Language	3	ENGL 1301
ENGL 1302	4 or 5	ENGL 1301 &
Physics B	3	PHYS 1401
PHYS 1402	4 or 5	PHYS 1401 &
Physics C	3	PHYS 2425
PHYS 2426	4 or 5	PHYS 2425 &
Psychology	3 or higher	PSYC 2301
Spanish Language Spanish I	3	SPAN 1411
1412 Spanish I and II	4	SPAN 1411 &
1412 & 2311 (Spanish I, II, & III)	5	SPAN 1411,
Spanish Literature Spanish III	3	SPAN 2311
2312 Spanish III and IV	4	SPAN 2311 &
2311, 2312, & 2321 (Spanish III & IV and Spanish Lit. I)	5	SPAN
Statistics	3 or higher	MATH 2342
Studio Art(Drawing Portfolio)	3 or higher	ARTS 1316
U. S. Government & Politics Government	3	GOVT 2305 U. S.
U. S. History	3	HIST 1301
HIST 1302	4 or 5	HIST 1301 &

CLEP Testing Policy

GC is an open CLEP testing facility. Students who believe they possess the knowledge and skills essential in certain courses or programs offered by GC may challenge these by examination through CLEP. GC students and others in the community interested in taking a CLEP test should contact the GC Testing Center for information.

International Baccalaureate Diploma

The International Baccalaureate Diploma is an international program of courses and exams offered at the high school level. Texas institutions of higher education must award 24 hours of course specific college credit in subject-appropriate areas on all IB exams with scores of 4 or above as long as the incoming freshmen have earned an IB diploma. However, course credit does not have to be awarded on any IB exams where the score received is a 3 or less. This may mean that such students will not receive 24 hours of college credit, even if they have an IB diploma. Students bringing in an IB transcript for credit evaluation should consider the total number of qualifying credits to be awarded. Additional hours above the required amount to graduate may have an adverse impact on students' financial aid or other grant programs. In addition, no Texas public university or college shall be required to accept in transfer or toward a degree program more than sixty-six (66) semester credit hours of lower division academic credit.

GC Credit for International Baccalaureate Diploma

IB Examination	Score	GC Course	Credit Hours
BIOLOGY (SL)	4, 5, 6 or 7	BIOL 1406	4
BIOLOGY (HL)	4, 5, 6 or 7	BIOL 1406 & 1407	8
BUSINESS & MANAGEMENT	4, 5, 6 or 7	BUSI 1301	3
CHEMISTRY (SL)	4, 5, 6 or 7	CHEM 1411	4
CHEMISTRY (HL)	4, 5, 6 or 7	CHEM 1411 & 1412	8
COMPUTER SCIENCE	4, 5, 6 or 7	COSC 1301	3
ECONOMICS (SL)	4, 5, 6 or 7	ECON 2301 & 2302	6
ECONOMICS (HL)	4, 5, 6 or 7	ECON 2301 & 2302	6
ENGLISH (SL)	4, 5, 6 or 7	ENGL 1301 & 1302	6
Language A1 or A2	4, 5, 6 or 7	ENGL 1301 & 1302	6
ENGLISH (HL)	4, 5, 6 or 7	ENGL 1301 & 1302	6
Language A1 or A2	4, 5, 6 or 7	ENGL 1301 & 1302	6
GEOGRAPHY	4, 5, 6 or 7	GEOG 2312	3
GREEK, CLASSICAL	4, 5, 6 or 7	LANG 1411	8
HISTORY OF THE AMERICAS (HL)	4, 5, 6 or 7	HIST 1301 & 1302	6
LATIN (SL)	4, 5, 6 or 7	LANG 1411 and 1412	8
LATIN (HL)	4, 5, 6 or 7	LANG 1411, 1412, 2311 & 2312	14
MATHEMATICS (HL)	4, 5, 6 or 7	MATH 1314 & 1316	6
Mathematics (HL)	4, 5, 6 or 7	MATH 1314 & 1316	6
Mathematics with Further Mathematics	4, 5, 6 or 7	MATH 1314, 1316 & 2342	9
Mathematical Methods	4, 5, 6 or 7	MATH 2513	5
Mathematical Studies	4, 5, 6 or 7	MATH 1425	4
MODERN LANGUAGES			
Language A1 or A2 (SL)			
French	4, 5, 6 or 7	LANG 1411 & 1412	8
German	4, 5, 6 or 7	LANG 1411 & 1412	8
Portuguese	4, 5, 6 or 7	LANG 1411 & 1412	8
Russian	4, 5, 6 or 7	LANG 1411 & 1412	8
Spanish	4, 5, 6 or 7	SPAN 1411 & 1412	8
Language A1 or A2 (HL)			
French	4, 5, 6 or 7	LANG 1411, 1412, 2311 & 2312	14
German	4, 5, 6 or 7	LANG 1411, 1412, 2311 & 2312	14

Portuguese	4, 5, 6 or 7	LANG 1411, 1412, 2311 & 2312	14
Russian	4, 5, 6 or 7	LANG 1411, 1412, 2311 & 2312	14
Spanish	4, 5, 6 or 7	SPAN 1411, 1412, 2311 & 2312	14

Language B (SL)

French	4, 5, 6 or 7	LANG 1411 & 1412	8
German	4, 5, 6 or 7	LANG 1411 & 1412	8
Portuguese	4, 5, 6 or 7	LANG 1411 & 1412	8
Russian	4, 5, 6 or 7	LANG 1411 & 1412	8
Spanish	4, 5, 6 or 7	SPAN 1411 & 1412	8

Language B (HL)

French	4, 5, 6 or 7	LANG 1411, 1412, 2311 & 2312	14
German	4, 5, 6 or 7	LANG 1411, 1412, 2311 & 2312	14
Portuguese	4, 5, 6 or 7	LANG 1411, 1412, 2311 & 2312	14
Russian	4, 5, 6 or 7	LANG 1411, 1412, 2311 & 2312	14
Spanish	4, 5, 6 or 7	SPAN 1411, 1412, 2311 & 2312	14

Language AB Initio

French	4, 5, 6 or 7	LANG 1411	4
German	4, 5, 6 or 7	LANG 1411	4
Portuguese	4, 5, 6 or 7	LANG 1411	4
Russian	4, 5, 6 or 7	LANG 1411	4
Spanish	4, 5, 6 or 7	SPAN 1411	4
MUSIC	4, 5, 6 or 7	MUSI 1306 & 1311	6
PHILOSOPHY	4, 5, 6 or 7	PHIL 1301	3
PHYSICS (SL)	4, 5, 6 or 7	PHYS 1401	4
PHYSICS (HL)	4, 5, 6 or 7	PHYS 1401 & 1402	8
PSYCHOLOGY	4, 5, 6 or 7	PSYC 2301	3

SOCIAL & CULTURAL

ANTHROPOLOGY	4, 5, 6 or 7	ANTH 2351	3
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THEATRE ARTS	4, 5, 6 or 7	DRAM 1310	3
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VISUAL ARTS	4, 5, 6 or 7	ARTS 1301	3
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Grading and Academic Standing

Grade Reports and Transcripts

Final grades are available to students through My Viking. A transcript of college work is an official copy of the student's permanent record listing all course work at the College and bearing the signature of the Registrar. Students may obtain copies of their official transcript by following the steps listed online. Official transcripts will not be released to students with academic or financial holds until such holds are cleared.

Academic Achievement Grading and Credit (EGA Local)

The College District shall have appropriate standards for evaluating student performance and for determining grades and graduation requirements.

To the extent practical, procedures shall encourage and recognize academic excellence.

The College District uses the following grading system:

A — The student demonstrates mastery of course content and meets course objectives. The grade of "A" is an exceptional grade attained by students demonstrating exceptional performance of college-level work.

B — The student demonstrates mastery of course content and meets selected objectives. The grade of "B" is an above-average grade attained by students demonstrating above-average performance of college-level work.

C — The student demonstrates acceptable competency in coursework and meets selected course objectives. The grade of "C" is an average grade attained by students demonstrating average performance of

college-level work. Students with concurrent enrollment for high school and college credit must maintain a minimal grade of "C" in the course.

D — The student demonstrates minimal performance in coursework and does not meet course objectives. The grade of "D" is considered unsatisfactory in a student's major field of study, and this grade generally does not transfer.

F — Failure. No credit is given for the grade of "F."

I — Incomplete. The grade of "I" indicates that the student has a valid excuse for failure to complete the work required during the semester.

Incomplete work should be completed within the regular term.

Failure to remove an "I" during the succeeding regular term may result in an "F" being placed on the permanent record.

W — Withdrew passing or dropped before automatic withdrawal date.

P — Passing. Used only for orientation course and credit by award.

S — Satisfactory. Used for nondegree courses.

U — Unsatisfactory. Used for nondegree courses.

NC — Noncredit. Used for audited courses.

Value of Grade Points

In determining grade point averages (GPAs), all hours where grade points are given shall be considered in computing GPAs.

Grade points are granted on college courses on the basis of the value in semester hours of the course and the grade made in the course as follows:

A = 4 grade points per semester hour

B = 3 grade points per semester hour

C = 2 grade points per semester hour

D = 1 grade point per semester hour

E = 0 grade points per semester hour

Grade Point Determination

The GPA is computed by dividing the total number of grade points earned by the total number of semester hours attempted. Grades of I, W, P, S, U, NC, and F in pass/fail courses are excluded from GPA calculation.

Grades earned in developmental courses are also excluded from GPA calculation.

Instructional Services

The College District accepts appropriate coursework from accredited institutions outside the United States, provided that the student successfully completed the courses.

Foreign Coursework

A student requesting credit for coursework completed at an institution outside the United States must first apply for admission to the College District and enroll in courses in the College District. To receive transfer credit from foreign institutions, the student must bring an official copy of the transcript from the institution and a certification and translation report from World Education Services (WES), the American Association of Collegiate Registrars and Admission Officers (AACRAO), or the Foreign Credentials Service of America (FCSA) to the College District admissions office. Certification and translation services provided by an entity other than WES, the AACRAO, or the FCSA shall not be accepted. The cost for certification and translation must be paid by the student. Only the maximum number of hours accepted by the department for transfer work shall be considered.

Scholastic Standards

Good Standing: A student will be considered in good academic standing with a cumulative grade-point average (GPA) of 2.00 or higher.

Academic Probation: A student will be placed on academic probation when the cumulative GPA falls below 2.00. The student will be required to successfully complete Learning Frameworks once the probation has been placed on the student record.

Academic Suspension: A student who is on academic probation will be suspended for one long semester when the cumulative GPA remains below 2.00. However, a student may enroll in summer school or minimesters in order to improve the GPA to the required 2.00 to be in good standing.

A student on suspension has the right to appeal to the Academic Appeals Committee. After remaining out of school for one long semester, a student may be readmitted on academic probation.

Academic Dismissal: Students who experience their third academic suspension will be dismissed from Grayson College. Students who are academically dismissed cannot enroll in courses at Grayson College for a period of three years. In addition, departments have the prerogative to permanently dismiss students from particular programs of

study based on departmental guidelines. Students who are academically dismissed are afforded due process rights as outlined in the student grievance procedures (FLD).

President's and Dean's Lists

The GC President's and Dean's lists are awarded at the end of the fall and spring semester to students who have demonstrated outstanding achievement in their coursework. Students must be enrolled in at least 12 hours at GC during the fall or spring semester. Developmental courses, incomplete courses, credit awards and courses with "W" or "P" grades are not counted in the full-time determination for the honor.

The President's list will be awarded to students earning a 4.0 GPA. The Dean's list will be awarded to students earning a 3.75 to 3.99 GPA.

Registration

Registration dates and times are published in the Schedule of Classes available from the Admissions and Records Office and the online college calendar. All tuition and fees must be paid by payment deadlines. Payment may be made by cash, check, payment plan, MasterCard, Visa, or Discover cards. Students who have financial or academic holds on their records will not be allowed to register until the hold is cleared by the appropriate office.

Registration Options 1 and 2

Option 1: Students enrolling in college-level courses are required to pre-assess on a state approved skills assessment.

Option 2: Students enrolling in Level 1 Certificate programs will not be required to pre-assess on a state-approved skills assessment unless they plan to enroll in courses not listed on their certificate plan or in academic courses that require students to demonstrate college readiness prior to enrolling.

Admission and Records Office

The Office of Admission and Records assists prospective, current and former students. Students can contact this office for assistance with admission applications and requirements, registration, graduation, enrollment verifications, audit forms, add/drop courses, withdrawal forms, credit awards, residency appeals and transcripts.

Verification of Enrollment

Students may contact Jeff Scott, Assistant Registrar, at scottj@grayson.edu in order to request verification of enrollment.

Verification of Student Degrees

Grayson College has partnered with the National Student Clearinghouse to provide degree verifications. Students, employment agencies, credit issuers and other student service providers can contact the National Student Clearinghouse directly to receive degree verification at 703.742.7791 or www.studentclearinghouse.org.

Self-Service Transcript Requests

Students may print out unofficial transcripts (listed as Letter Transcript) from the My Viking student portal.

In addition, All former and current students can visit www.studentclearinghouse.org to request an official transcript. A fee of \$2.25 will be charged and can be paid with a major credit card. Requests are typically handled within three business days. Some record holds can prevent you from obtaining your official transcript.

Curriculum Design Degrees and Certificates (EFB Legal)

Academic Associate Degree. An "academic associate degree" is an associate degree that will satisfy the lower-division requirements for a baccalaureate degree in a specific discipline. 19 TAC 9.1(1)

Academic Courses. "Academic courses" are semester credit courses included or allowed under the provisions of the Lower-Division Academic Course Guide Manual designed for college transfer to institutions of higher education in completion of associate and baccalaureate degree programs. 19 TAC 9.1(2)

Applied Associate Degree. An "applied associate degree" is an associate degree intended to lead directly to employment following graduation and may satisfy the lower-division requirements for a baccalaureate degree in a specific discipline. 19 TAC 9.1(3)

Associate Degree Program. An "associate degree program" is a grouping of courses designed to lead the individual directly to employment in a specific career or to transfer to an upper-level baccalaureate program. This specifically refers to the associate of arts (AA), associate of science (AS), associate of applied arts (AAA), associate of applied science (AAS), and associate of occupational studies (AOS) degrees. The term "applied" in an associate degree name indicates a program designed to qualify students for immediate employment. 19 TAC 9.1(4)

Career Technical/Workforce Program. "Career technical/workforce program" is an applied associate degree program or a certificate program for which semester credit hours, quarter credit hours, or continuing education units are awarded and which is intended to prepare students for immediate employment or a job upgrade in a specific occupation. 19 TAC 9.1(5)

Certificate Program. "Certificate program" means workforce programs designed for entry-level employment or for upgrading skills and knowledge within an occupation. Certificate programs serve as building blocks and exit points for AAS degree programs. 19 TAC 9.1(7)

Continuing Education Unit or CEU. A “continuing education unit or CEU” is defined as ten contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction, as outlined in the Guidelines for Instructional Programs in Workforce Education. 19 TAC 9.1(11)

Technical Courses or Programs. “Technical courses or programs” mean workforce education courses or programs for which semester/quarter credit hours are awarded. 19 TAC 9.1(28)

Workforce Continuing Education Course. “Workforce continuing education course” means a course offered for CEUs with an occupationally specific objective and supported by state funding. A career technical/workforce continuing education course differs from a community service course offered for recreational or vocational purposes and is not supported by state funding. 19 TAC 9.1(31)

Workforce Education. “Workforce education” means career technical/workforce courses and programs for which semester/quarter credit hours and/or CEUs are awarded and vocational courses and programs for which CEUs are awarded. Workforce career technical/workforce education courses and programs prepare students for immediate employment or a job upgrade within specific occupational categories. 19 TAC 9.1(32)

Academic Degree Programs. An academic associate degree may be called an associate of arts (AA), an associate of science (AS), or an associate of arts in teaching (AAT) degree. 19 TAC 9.183(a)

The AA is the default title for an academic associate degree program if the college district offers only one type of academic degree program. 19 TAC 9.183(a)(1)

If a college district offers both AA and AS degrees, the degree programs may be differentiated in one of two ways, including:

1. The AA program may have additional requirements in the liberal arts and/or the AS program may have additional requirements in disciplines such as science, mathematics, or computer science; or
2. The AA program may serve as a foundation for the bachelor of arts (BA) degree and the AS program for the bachelor of science (BS) degree.

Each academic associate degree must provide a clearly-articulated curriculum that can be associated with a discipline or field of study leading to a baccalaureate degree, and must be identified as such in the institution's program inventory.

19 TAC 9.183(a)(2)

The AAT is a specialized academic associate degree program designed to transfer in its entirety to a baccalaureate program that leads to initial Texas teacher certification. This title should only be used for an associate degree program that consists of a Coordinating Board-approved AAT curriculum. 19 TAC 9.183(a)(3)

Semester Credit Hours. Academic associate degree programs must consist of 60 semester credit hours (SCH). If the number of SCH required to complete a proposed academic associate's degree exceeds 60, the institution must provide detailed written documentation describing the compelling academic reason for the number of required hours, such as programmatic accreditation requirements, statutory requirements, or licensure/certification requirements that cannot be met without exceeding the 60-hour limit. The Coordinating Board will review the documentation provided and make a determination to approve or deny a request to exceed the 60-hour limit. Institutions of higher education must be in compliance with this subsection on or before the 2015 fall semester. 19 TAC 9.183(b)–(c)

Curriculum. Except as provided below, academic associate degree programs must incorporate the institution's approved core curriculum as prescribed by 19 Administrative Code 4.28, relating to Core Curriculum, and 19 Administrative Code 4.29, relating to Core Curricula Larger than 42 SCH.

1. A college may offer a specialized academic associate degree that incorporates a Coordinating Board-approved field of study curriculum as prescribed by 19 Administrative Code 4.32, relating to Field of Study Curricula, and a portion of the college's approved core curriculum if the coursework for both would total more than 60 SCH; or
2. A college may offer a specialized academic associate degree that incorporates a voluntary statewide transfer compact and a portion of the college's approved core curriculum if the coursework for both would total more than 60 SCH.
3. A college that has a signed articulation agreement with a General Academic Teaching Institution to transfer a specified curriculum may offer a specialized AA or AS, but not AAT, degree program that incorporates that curriculum.

19 TAC 9.183(d)

New Academic Associate Degree Programs. New academic associate degree programs shall be approved if all of the conditions set out below are met.

The institution shall certify that the following criteria have been met:

1. The program has institution and governing board approval.
2. There is recent evidence of both short-term and long-term student demand for the program.
3. Enrollment projections reflect student demand estimates to ensure the financial self-sufficiency of the program.
4. The institution has an enrollment management plan for the program.

5. If the program does not follow a Coordinating Board-approved field of study curriculum or a Coordinating Board-approved statewide articulation transfer curriculum, the institution has or will initiate a process to establish transfer of credit articulation agreements for the program with senior-level institutions.
6. The program is designed to be consistent with the standards of the Southern Association of Colleges Commission on Colleges (SACSCOC), other applicable accrediting agencies, and is in compliance with applicable licensing authority requirements.
7. Adequate funding is available to cover all new costs to the institution over the first five years after the implementation of the program.
8. The program complies with all applicable provisions contained in divisions of 19 Administrative Code Chapter 9, Subchapter J and adheres to the Standards for Academic Associate Degree Programs approved by the Coordinating Board.

The institution proposing the program shall notify all public institutions within 50 miles of the teaching site of their intention to offer the program at least 30 days prior to submitting their request to the Coordinating Board. If no objections are received, the Coordinating Board staff shall update the institution's program inventory accordingly. If objections occur, the proposed program shall not be implemented until all objections are resolved. If the proposing institution cannot resolve the objection(s), the proposing institution may request the assistance of the assistant commissioner of workforce, academic affairs and research to mediate the objections and determine whether the proposing institution may implement the proposed program.

The Coordinating Board delegates to the commissioner final approval authority for all certificate programs, applied associate degree programs, and academic associate degrees that meet Board policies for approval as outlined in the Guidelines for Instructional Programs in Workforce Education and 19 Administrative Code Chapter 9, Subchapter J. The commissioner may delegate this final authority.

19 TAC 9.184(a)

Audits. The Coordinating Board reserves the right to audit a certificate or degree program at any time to ensure compliance with any of the requirements of 19 Administrative Code Chapter 9, Subchapter J. 19 TAC 9.184(b)

Multidisciplinary Studies Associate Degree Program. The governing board of each public junior college district shall establish a multidisciplinary studies associate degree program which meets the requirements of 19 Administrative Code Chapter 9, Subchapter L at each junior college in the district. A multidisciplinary studies associate degree program is a coordinating board-approved associate of arts or associate of science degree composed of the college's core curriculum and enough additional courses to equal 60 semester credit hours (SCH). The SCH beyond the core curriculum must be selected by the student, in consultation with an academic adviser, and transfer to a specific field of study or major at a university of the student's choice.

A multidisciplinary studies associate degree program established at a junior college under 19 Administrative Code 9.553 must require a student to successfully complete:

1. The junior college's core curriculum adopted under Texas Education Code 61.822(b); and
2. After completion of the core curriculum described above, the courses selected by the student in the student's completed degree plan accounts for all remaining credit hours required for the completion of the degree program; and
3. Emphasizes the student's transition to a particular four-year college or university that the student chooses; and prepare for the student's intended field of study or major at the four-year college or university.

Education Code 130.0104(a)–(b); 19 TAC 9.552(5), .553.–554

Notwithstanding Texas Education Code 51.9685, before the beginning of the regular semester or term immediately following the semester or term in which a student successfully completes a cumulative total of 30 or more semester credit hours for coursework in a multidisciplinary studies associate degree program established under this section, the student must meet with an academic adviser to complete a degree plan, as defined by 19 Administrative Code 9.553 [see EFBA], that:

1. Accounts for all remaining credit hours required for the completion of the degree program; and
2. Emphasizes the student's transition to a particular four-year college or university that the student chooses; and
3. Preparations for the student's intended field of study or major at the four-year college or university.

Education Code 130.0104(c); 19 TAC 9.555

Academic Certificate. Institutions of higher education, including college districts, are encouraged to develop undergraduate academic certificate programs of less than degree length. Undergraduate academic certificates may be awarded upon the completion of:

1. The Coordinating Board-approved core curriculum of the institution;
2. A Coordinating Board-approved field of study curriculum; or
3. Fifty percent of the courses specified in a voluntary statewide transfer compact.

Undergraduate academic certificates that meet one of the criteria above require Coordinating Board notification and are automatically approved.

Career Technical Workforce Degree and Certificate Programs. Requests for new associate degree and certificate programs shall be made in accordance with the procedures stipulated in 19 TAC 9.93(b), below.

Public two-year colleges shall request new associate degree and certificate programs using the appropriate degree program request form. Public two-year colleges must submit documentation sufficient to establish that the new program meets all of the criteria listed below. Coordinating Board staff will review all requests for new programs within five business days of receipt. If Coordinating Board staff determines that the request is incomplete and additional information or documentation is needed, the institution must respond with all of the requested information or documentation within ten working days or the request will be returned to the institution. An institution may resubmit a request that was incomplete as soon as it has obtained the requested information or documentation.

New associate degree and certificate programs shall be approved if all of the following conditions are met, provided that the number of SCH required to complete a proposed associate degree program does not exceed 60 SCH.

1. The institution shall certify that:
 - a. The program has institutional and governing board approval.
 - b. The institution has researched and documented current job market need for the program and/or that the program would lead to opportunities for further education.
 - c. There is recent evidence of both short-term and long-term student demand for the program.
 - d. Enrollment projections reflect student demand estimates to ensure the financial self-sufficiency of the program.
 - e. Basic and career technical/workforce skills have been integrated into the curriculum.
 - f. The institution has an enrollment management plan for the program.
 - g. The institution has or will initiate a process to establish articulation agreements for the program with secondary and/or senior-level institutions.
 - h. The program is designed to be consistent with the standards of the SACSCOC, and with the standards of other applicable accrediting agencies, and is in compliance with appropriate licensing authority requirements.
 - i. The program would not unnecessarily duplicate existing programs at other institutions.
 - j. Representatives from private sector business and industry have been involved in the creation of the program through participation in an advisory committee.
 - k. Adequate funding is available to cover all new costs to the institution over the first five years after the implementation of the program.
 - l. New costs during the first five years of the program would not exceed \$2 million.
 - m. The institution has an improvement plan in place for all career technical/workforce programs that do not currently meet Coordinating Board standards for both graduation and placement.
 - n. The appropriate Higher Education Regional Council has been notified in writing of the proposal for a new program, and no unresolved objections to the program have been reported.
 - o. Skill standards recognized by the Texas Skill Standards Board, if they exist for the discipline, have been reviewed and considered for inclusion in the curriculum for the program.
2. If a proposed two-year career technical/workforce education program or certificate program meets the stipulated conditions, the institution shall submit a request to the assistant commissioner for workforce, academic affairs and research to add the program. If a proposed program does not meet the stipulated conditions, the institution must submit a proposal using the standard electronic new program application process.
3. If the number of SCH required to complete a proposed associate's program exceeds 60, the institution must provide detailed written documentation describing the compelling academic reason for the number of required hours, such as programmatic accreditation requirements, statutory requirements, or licensure/certification requirements that cannot be met without exceeding the 60-hour limit. The Coordinating Board will review the documentation provided and make a determination to approve or deny a request to exceed the 60-hour limit. Institutions of higher education must be in compliance with this paragraph on or before the 2015 fall semester.
4. The institution proposing the program shall notify all public institutions within 50 miles of the teaching site of their intention to offer the program at least 30 days prior to submitting their request to the Coordinating Board. If no objections are received, the Coordinating Board staff shall update the institution's program inventory accordingly. If objections occur, the proposed program shall not be implemented until all objections are resolved. If the proposing institution cannot resolve the objection(s), the proposing institution may request the assistance of the assistant commissioner of workforce, academic affairs and research to mediate the objections and determine whether the proposing institution may implement the proposed program.
5. If objections to the proposed program are received by the Coordinating Board staff, the proposed program shall not be implemented until all objections are resolved.

The commissioner shall forward a program to the Coordinating Board for consideration at an appropriate quarterly meeting if either of the following conditions is met: the proposed program is the subject of an unresolved grievance or dispute between institutions; or the commissioner has disapproved the proposed program and the institution has requested a Coordinating Board review.

Revisions. Revision of an existing associate degree or certificate program shall be approved if all of the requirements above at item 1 at CAREER TECHNICAL / WORKFORCE DEGREE AND CERTIFICATE PROGRAMS are met. To request a change of Classification of Instructional Programs (CIP) code for an existing degree or certificate program, the institution shall notify the Coordinating Board staff and certify that the revised program meets the requirements listed above at item 1. If the revision of an existing degree or certificate program meets the conditions stipulated at item 1, the institution shall submit a request to the assistant commissioner for academic affairs and research to revise the program. The Coordinating Board staff shall update the institution's program inventory accordingly. If a program revision does not meet the conditions stipulated, the institution shall submit a revision request using the standard electronic program revision request process. 19 TAC 9.93(f)–(i)

Audits. The Coordinating Board reserves the right to audit a certificate or degree program at any time to ensure compliance with any of the requirements in 19 Administrative Code Chapter 9, Subchapter E. 19 TAC 9.93(m)

Administrative Officials. All programs must be under the direction of an administrator having appropriate authority to ensure that quality is maintained and that programs are conducted in compliance with all applicable laws and rules. Administrative officers must possess credentials, work experience, and/or demonstrated competence appropriate to their areas of responsibility as specified by the SACSCOC. 19 TAC 9.93(j)

Faculty and Staff. Faculty and staff must be approved by the postsecondary institution. 19 TAC 9.93(k)

Baccalaureate Degree Programs. The Coordinating Board shall authorize public junior colleges to offer baccalaureate degree programs in the fields of applied science and applied technology under Education Code 130.0012. Offering a baccalaureate degree program under Section 130.0012 does not otherwise alter the role and mission of a public junior college.

The Coordinating Board shall authorize baccalaureate degree programs at each public junior college that previously participated in a pilot project to offer baccalaureate degree programs.

Education Code 130.0012(a)–(b)

Public community colleges authorized by the Coordinating Board to offer baccalaureate degree programs under Education Code 130.0012 may submit requests for new baccalaureate degree programs if:

1. The proposed degree program has the approval of the college's governing board;
2. The proposed degree program is not an engineering program; and
3. The addition of the proposed program to the college's inventory would not exceed five total approved baccalaureate degree programs.

19 TAC 5.56

Limitation on SCH Requirements. To earn an associate degree, a student may not be required by an institution of higher education, including a college district, to complete more than the minimum number of SCH required for the degree by the Southern Association of Colleges and Schools or its successor unless the institution determines that there is a compelling academic reason for requiring completion of additional SCH for the degree. The Coordinating Board may review one or more of an institution's associate degree programs to ensure compliance with this section.

This section does not apply to an associate degree awarded by an institution to a student enrolled in the institution before the 2015 fall semester. This provision does not prohibit the institution from reducing the number of SCH the student must complete to receive the degree.

Education Code 61.05151

State Funding. No funds appropriated to any public two-year college or other institution providing certificate or associate degree programs shall be expended for any program that has not been approved by the commissioner or the assistant commissioner for workforce, academic affairs and research or, when applicable, by the Coordinating Board. 19 TAC 9.96

Degree-Seeking Students. A student who is concurrently enrolled at more than one institution of higher education may be classified as a degree-seeking student at only one institution.

If a student maintains continuous enrollment from a spring semester to the subsequent fall semester at an institution at which the student has declared to be seeking a degree, the student remains a degree-seeking student at that institution regardless of the student's enrollment during the intervening summer sessions at another institution.

19 TAC 4.28(d)(2)–(3)

Compensatory Courses. Courses designated as compensatory in the Lower-Division Academic Course Guide Manual may not be used to satisfy degree requirements. Such courses may be used as co-requisites or prerequisites for degree courses as determined by local institutions. 19 TAC 9.76

Low-Producing Degree Programs. The Coordinating Board may review the number of degrees or certificates awarded through a degree or certificate program every four years or more frequently, at the Coordinating Board's discretion. The Coordinating Board shall review each degree or certificate program offered by an institution of higher education at least every ten years after a new program is established using the criteria prescribed by Education Code 61.0512(c). Education Code 61.0512(d)–(e); 19 TAC Ch. 4, Subch. R

Definition. A "low-producing degree program" is a degree program that does not meet the minimum standard for degrees awarded in the program. For career technical certificates, associate, and bachelor's programs, the minimum

standard is an average of five degrees awarded per academic year, to total not fewer than 25 degrees awarded for any five-year period. 19 TAC 4.287(4)

Completers of career technical certificate programs that are reported under the same CIP code as an existing applied associate's degree program will be counted as completers of the corresponding applied associate's degree program for purposes of determining low-producing status. Academic associate degree programs are not considered to be low producing if they lead to transfer into four-year programs. 19 TAC 4.288(c)–(d)

Consequences. The Coordinating Board may not order the consolidation or elimination of any degree or certificate program offered by an institution of higher education. Coordinating Board staff may recommend to the institution's governing board the closure of any non-exempt degree program which has been on the annual list of low-producing programs for three or more consecutive years. If the governing board does not accept the recommendation to close the program, then the university system or, where a system does not exist, the institution, must identify the program recommended for closure on the next legislative appropriations request submitted by the system or institution. If a system or institution is required to identify a degree program on its legislative appropriations request, the system or institution should also develop a plan to allow the degree program to achieve the minimum standard for the degree awarded, or if the standard is not attainable, provide a rationale describing the merits of continuing the degree program. Education Code 61.0512(f); 19 TAC 4.290

Last updated: 06/23/2017

Grayson College

6101 Grayson Drive (Hwy. 691) Denison, TX 75020
(903) 465-6030

Grayson College Course Catalog

Student Services and Activities

- [Student Services and Activities](#)

Success Centers

The Success Centers on the Main and South Campuses offer a wide range of services to students and community members. Testing services include the TSI Assessment as well as make-up and distance education tests. Testing services on the Main and South Campuses vary; call 903-463-8724 (Main Campus) or 903-415-2509 (South Campus) to check on services available at each location. Testing schedules are available on the GC web page.

In addition, the Success Centers provide many learning support services, including the Math Hub, Writing Center, i-Lab, disabilities services, tutoring and the Super Student programs, learning strategy referrals, workshops, seminars, and additional course materials. Students with documented disabilities request accommodations through the Coordinator of Services for Students with Disabilities (903-463-8751), who then assists students in accessing approved accommodations. The Math Hub on the Main Campus is open during the fall and spring semesters from 8 a.m. to 8 p.m. Monday through Thursday and 8 a.m. to 2 p.m. on Friday. Hours vary at the South Campus. Summer hours vary at both locations.

Tutoring Program

Grayson College offers free peer tutoring services to students enrolled in regular college credit programs and a “Super Student” program for students enrolled in selected sections of mathematics courses. Peer tutors are trained and supervised by professional staff in the Success Centers on the Main and South Campuses. For information, please call 903-463-8751. Grayson College’s peer tutoring program is accredited through the College Reading and Learning Association.

Adult Basic Education/GED Program

Grayson College is the fiscal agent for an adult education program provided through a partnership with the Texas Education Agency. Funded by federal and state grants, these free classes are offered in a variety of locations in the following four counties – Grayson, Fannin, Hunt, and northern Cooke. Both day and evening classes are available for students ages eighteen and above. The classes meet throughout the calendar year, including the summer months.

Highly qualified and caring teachers assist students achieve their personal educational and/or employment goals. By utilizing a student centered approach to learning, the classes are tailored to each student’s learning style. Students’ progress at their own rate and can attend more than one class. Flexible scheduling around work hours or other commitments is available at some locations, as well as distance education assistance.

The components of this adult program include the following:

- Refresher classes to prepare for college, skills training, or employment advancement
- GED preparation, including writing a two-page essay
- English language classes for all levels of adult learners
- Basic to advanced instruction in reading, math, and language
- Transition programs to college or work
- Basic computer skills, including accessing the internet
- Counseling referrals for college enrollment and tuition assistance
- Workplace focused instruction for area businesses
- Distance education by internet or DVD to supplement classroom hours

Please call 903-463-8784 for class information. For information about the GED test call 903-463-8724.

Athletics

Grayson College provides a varied athletic program for all its students. Intercollegiate competition is held in baseball and softball. Recreational competition is sponsored in basketball and flag football. Both men and women participate in recreational sports.

Center for Workplace Learning

The Center for Workplace Learning (CWL) represents all continuing education activities at Grayson College. The purpose is to provide customer-centered, community connected and quality-driven workplace learning solutions to provide the Texoma region with a globally competitive workforce. We strive to promote partnerships between education, industry and government to provide world-class education and training opportunities throughout the Texoma region. Customized training classes for business and industry as well as scheduled continuing education courses are offered year-round through the CWL at Grayson College.

Counseling Services

Professionally trained counselors and academic advisors are available to assist students in achieving success. Counselors and advisors assist students with career planning and placement, as well as academic concerns. Licensed Professional Counselors are available to support and assist current students with individualized counseling. Counselors provide short-term personal counseling and make referrals when needed.

College 101: Orientation

College 101 is required for prospective, new and transfer students interested in attending Grayson College. The program is designed for students graduating from high school, brushing up skills, changing careers, or developing personal interests. College 101 assists in making the transition to college.

To be released for on line scheduling of classes, students are required to attend College 101. The following categories of students should be prepared to attend:

- All students who have stopped out of GC for more than 1 year will be required to participate in College 101.
- All new students to GC
- All transfer students regardless of the number of hours. All transfer students must see an academic advisor to initiate transfer credit evaluation and have a degree audit uploaded in My Viking. The policy requires all transfer students who may be on probation at another college to visit an academic advisor prior to enrolling at GC.
- All probation/suspended students who have never attended College 101.

Career Planning and Placement

Grayson College offers students the opportunity to engage in career assessments and computerized career guidance programs which assist them in choosing a college major and making career decisions. The College provides career planning and job search services free of charge to students, former students, and those in the process of enrolling. The Career Placement office provides opportunities for students to learn job search skills, such as resume and cover letter writing, and how to interview for a job.

Academic/Vocational Advising

Advising is available to assist students in reaching their goals through developing and following sound academic or vocational plans. Although students are assigned academic advisors in their major areas, professional counselors and advisors are available to provide additional assistance when necessary.

Retention Services and Activities

Students are provided with information, tools, resources, and support systems that facilitate educational persistence and success.

Personal Counseling

The counseling program is designed to support and assist students when personal issues impact their college experience. Personal counseling is available by appointment, or on a walk-in basis for urgent needs.

Veterans Services

Grayson College provides a Veterans Affairs Office to assist the enrollment of veterans, war orphans, war widows, and totally disabled veterans, their wives and children. This office serves as a liaison between Grayson College and the Veterans Administration and is located in the Administrative Services Building. Please contact the Veterans Affairs Certifying Official or check the website for information concerning the required documents.

All students are strongly encouraged to visit the Counseling Services Office as part of their college experience.

ESL Support

Grayson offers ESOL classes in conversation, reading, and writing/grammar for non-native English speakers. Designed to help students improve their English for greater success in home, school, and work environments, ESOL courses can be taken prior to or concurrent with other college coursework. Students are placed at the beginning, intermediate, or advanced level based on their language skills.

Along with specialized ESOL classes and labs, the College offers support services to non-native English speaking students to improve their access to and success in academic and vocational coursework. The Foreign and ESOL Student Advisor assists ESOL students with applying to college, establishing residency, and registering for classes. Staff also mentor ESOL students each semester they are enrolled—helping them attain their personal and educational goals. Such assistance includes referring them to campus and community services as needed (tutoring, financial aid, child care, JTPA, etc.).

Honors College

The Honors College at Grayson College seeks to promote excellence in education through learning-centered honors sections of core courses and participation in the cultural, social, and public service activities of the campus and community. To graduate from the Honors College students are required to maintain a 3.0 cumulative GPA, take at least 12 credit hours of honors courses with the grade of B or better, and to participate in service learning activities with the Honors College on campus and in the community. The Presidential Honors Scholarship for honors students is awarded at the end of spring semester for the following academic year to continuing GC students who apply using the form on the college's homepage.

Honors Sections

Honors sections are active learning classes of core courses that promote student engagement through participation in the classroom. These sections are open to all students, but enrollment is capped at 25 so that collaboration and communication can more easily occur than in larger sections of the same course. Grayson College reserves the rights to combine certain honors sections with our traditional courses due to enrollment or other factors impacting these courses.

Library

The Grayson College Library is a member of BARR, a four-library consortium whose members include Grayson College, Denison Public Library, Sherman Public Library, and Austin College. Currently enrolled GC students are eligible to obtain a BARR library card. All BARR cardholders have lending privileges at each of the libraries and a courier service delivers books among the libraries. The BARR online catalog can be accessed from the library link on the college web site.

To provide access to many electronic databases and the Internet, an open computer lab is available to GC students and the public. The full text databases are also available from every computer on the campus network as well as from home. Ask the library staff for more information. Software loaded on these computers includes Microsoft Office and Internet Explorer. The library also participates in TexShare, and is a member of AMIGOS, which provides OCLC access.

Circulating books are checked out for two weeks. Video cassettes and DVDs are available for circulation and are checked out for a three-day period.

The library is open from 8:00 a.m. to 9:00 p.m. Monday through Thursday and from 8:00 a.m. to 4:00 p.m. on Friday. During the fall and spring semesters, the library is also open from 1:00 p.m. to 4:00 p.m. on Sunday. The library is "open stack" and students are encouraged to browse. New books are shelved in the area near the circulation desk for easy inspection by faculty and students.

The mission of the Grayson College Library is to meet the appropriate informational needs of both the individual and the community, and to provide quality services and materials. The library is committed to cooperating with other information agencies whenever possible, and to continuous improvement.

Public Safety & Campus Police

Campus peace officers have all of the powers, privileges and immunities afforded state peace officers and have jurisdiction on all properties that are owned by or under the control of Grayson College. The Public Safety & Campus Police Office is located between the BSM and Viking Resident Hall on the college's main campus. Students and employees who operate a motor vehicle on college property are required to register their vehicle with the police office and place a valid parking permit on the vehicle. Any person desiring a copy of the college's Crime Awareness and Security Bulletin may obtain a copy in the police office. The bulletin contains information related to campus crime statistics, crime reporting procedures, crime prevention techniques and other information mandated by the Crime Awareness and Campus Security Act of 1990. The Public Safety and Police Office is a service oriented organization and offers non-traditional law enforcement services. For a complete description of services offered, contact the Public Safety and Police Office at extension 8619 or in an emergency, always call 911.

Recruiting

Enrollment advisors, located in the Administrative Services building, are available to provide necessary information and forms to current and prospective students about all programs offered at GC. They provide tours of the campus, dorms and programs for groups and individuals. Prospective students can request information by emailing recruiting@grayson.edu or calling 903-465-8604. An enrollment advisor will reply to their requests, answer questions, assist with enrollment information, and/or send requested information.

Student Government Association

The Grayson College Student Government Association is the student organization that acts as an advisory group to the administration of the college. The Student Government Association serves to unify clubs and organizations and their activities. It is composed of appointed officers. The Student Government Association sponsors various activities and helps arrange the social calendar for the year. The Director of Student Life is the advisor.

Student Life

The purpose of Student Life is to engage students in meaningful activities, events and organizations that will increase student retention and improve class completions. The activities, programs and services offered by Student Life are available to all students, administrators, faculty and staff. The Student Life Office is located on the 2nd floor of the Life Center.

Eligibility for Activities

The eligibility of any student participating in the intercollegiate program will be determined according to the regulations and policies set in scholarship requirements at Grayson College and the Northern Texas Junior College Athletic Conference.

Any student who has been enrolled during five or more semesters in the College may lose eligibility in any College-sponsored activity.

Student Rights and Responsibilities

Students who conduct themselves with proper consideration for the rights and works of their associates and who have serious purposes in attending college will have no difficulty in adjusting themselves to student life at Grayson College.

Regulations of the College forbid the use or possession of alcoholic liquors or narcotics, or the appearance of the student on the campus under the influence of either.

HAZING: The College prohibits hazing. Hazing means any intentional, knowing, or reckless act on or off campus directed against a student, by one person alone or acting with others, that endangers the mental or physical health or the safety of a student for the purpose of being initiated into, affiliating with, holding in, or maintaining membership in any organization whose members are or include other students.

Please refer to the Policies & Procedures Manual located on the Grayson College website for further explanation of students rights and responsibilities.

Student Organizations

Baptist Student Ministry

Exists to provide a fellowship for students interested in developing and strengthening their religious life. Participation is open to all students on campus.

Care Center

The Care Center provides emergency financial assistance to students.

Clay Club

The purpose of this club shall be to educate and develop community awareness of the Grayson College Ceramic program, to develop a student ceramic art Gallery Show and to participate in local charity fundraising events.

Cosmetology Shears Club

The purpose of Shears is to build relationships between students and provide educational opportunities for GC students in the Cosmetology program, to attend various hair shows and to provide specialty training to professionals in Cosmetology.

Criminal Justice Club

The purpose of this organization shall be to encourage and foster organized education, training and competition in Criminal Justice including the shooting sports among students, faculty and staff of Grayson College. This purpose specifically includes the training and fielding of teams in local and intercollegiate competitions as well as promoting within the college community an increased knowledge of the criminal justice system and the safe handling and proper care of firearms and the skills of marksmanship.

The objective of this organization shall be to develop and promote among the college community in general, and the competitive individuals and teams in particular, the characteristics of self-discipline, mental control, self-reliance, honesty, sportsmanship and team play.

Culinary Arts and Hospitality Management Club

(TIPSS-Top Innovative Professionals of Service and Spirits). The purpose of TIPSS is to acknowledge, educate and promote the development of Culinary Arts, Hospitality Management, Viticulture and Enology programs at Grayson College. The club will develop community awareness of the Culinary Arts and Hospitality Management, Viticulture and Enology programs, as well as participate in food shows, local charity events and fundraising for both students and the community.

Cultural Diversity Club

The purpose of the organization is "to bring cultural awareness to all GC students, faculty, staff and the GC community."

DAAC

To inform students on the issues related to drug and alcohol abuse and also to encourage interest and involvement in the DAAC program.

Delta Phi Delta

Delta Phi Delta is an art organization which encourages and promotes the production and appreciation of the visual arts through workshops, exhibitions, and art related activities. Membership is open to all GC students interested in fostering the arts on campus and in the community.

Delta Psi Omega

Delta Psi Omega is a national fraternity for students involved in dramatic arts and promotes fellowship among students interested in theatre on both local and national levels. Membership is open to all GC students with interest in the Fine Arts.

Dental Assisting Student Association

The Dental Assisting Student Organization is an association focused on the enhancement of student's knowledge in the field of Dental Assisting. The goal is to promote participation and leadership in the profession of dentistry and in the American Dental Assistants Association. Membership is limited to full-time students enrolled in the Dental Assisting Certificate Program.

Electrical Technology Club

The Electrical Club provides comprehensive training in electrical technology that helps students succeed in a career as an electrician. Students acquire basic knowledge and skills in applied electrical theory, residential, commercial and industrial wiring, blueprint reading, estimating, National Electrical Code, motor controls, PLC automation and building codes. The club provides a support group for students in the Electrical Technology program.

Eta Sigma Delta

ESD is an honor society for the Hospitality Management and Culinary Arts Department at Grayson College. The purpose of ESD is to recognize the scholastic and professional achievement of students in the academic majors of Hospitality Management, Restaurant Management and Culinary Arts. ESD stands for excellence, leadership, creativity, service and ethics.

Fellowship of Christian Athletes

Exists to provide a fellowship (huddle group) for athletes and coaches interested in developing their religious life. FCA is open to all students on campus.

Film Club

The purpose of this club shall be to provide students an opportunity to watch and discuss various films from different eras and genres, to broaden student's understanding of film context and subject matter to study the technical aspects of screenwriting and filmmaking. Also, to encourage students to think critically about each film and the filmmaking process.

Future Educators Club

The purpose is to provide an inspirational atmosphere in which all students can further their knowledge and interest in education and child development by attending scheduled events, participating in stimulating discussions and promoting education.

Gay Straight Alliance

The purpose of the Gay Straight Alliance shall be to promote a safe-space environment on campus for students of all gender and sexual identities to be and express themselves freely, and promote that students support each other. This organization shall also strive to educate the Grayson County community about homophobia, transphobia, heterophobia and gender identity discrimination.

Grayson College Gamers Guild

The central and foundational mission of the Gamers Guild is to better serve the community of Grayson College with a variety of engaging activities.

Grayson College History Club

The mission of the Grayson College history club is to promote interest and awareness of history within the Grayson College community and the County of Grayson, through the use of historical films, lectures, outings and other events.

Grayson College Music Club

The purpose of the Grayson College Music Club is to promote the Music Department by spreading music throughout the community. To provide a forum for like-minded students to organize events, fundraising opportunities and attend musical performances.

Grayson College Science Club

The purpose of the Science club is to explore the interdisciplinary aspect of science, to encourage students' involvement in the sciences, to provide a support group for students enrolled in science courses and to encourage students' involvement in community science activities.

Grayson Honors College

The central and foundational mission of Grayson honors College is to better serve the educational needs of academically talented and highly motivated students at the College. The program encourages the participation of the broadest possible range of gifted students.

Grayson Nursing Students Association

This association is the local organization with affiliation in the Texas and National Student Nurses' Associations. Its purpose is to provide the basic background needed for participation and leadership in the professional association. Membership is limited to students enrolled in the Associate Degree Nursing Program.

HALO Club

(Hispanic American Leadership Organization). The purpose of this organization is to allow immigrant students in Grayson County, especially those with undocumented status, to have an organization that they know will have their best interest at all times, to help enrich member's leadership skills and encourage them to utilize these skills by their leadership opportunities throughout Grayson College and the world and to serve as a bridge between the local area high schools and Grayson College.

Heating, Ventilation, Air Conditioning and Refrigeration Club (HVACR)

It is the mission of the HVACR Club to promote interest and awareness of air conditioning and heating systems within the Grayson College community and the County of Grayson through the use of lectures, outings and other events.

History Club

The purpose of the Grayson College History Club is to promote interest and awareness of history within the Grayson College community and the County of Grayson through the use of historical films, lectures, outings and other events.

Honors College Club

The purpose of the Grayson Honors College is to better serve the educational needs of academically talented and highly motivated students at the college. The program encourage the participation of the broadest possible range of gifted students.

Medical Lab Technician Association

The MLT Association mission is to enhance the quest for knowledge through participation in professional society activities and to promote an interest in and gain knowledge of regulatory agencies associated with the medical technicians field. Membership is limited to students enrolled in the Medical Laboratory Technology Program.

Men of Distinction Program

Men of Distinction is designed to recruit and retain all Grayson College gentlemen with the intent on helping them achieve their educational goals and challenge their potential to inspire to do great things in the community and the world.

Mu Alpha Theta

Mu Alpha Theta is an organization whose purpose is to stimulate interest in mathematics by providing public recognition of superior mathematical scholarship and by promoting various mathematical activities. Prospective members must have had at least one mathematics course at or above the College Algebra level, a 3.5 GPA overall in all two-year mathematics courses at or above the College Algebra level, and a 3.3 cumulative GPA in all courses.

Paramedic Student Association

The purpose of the organization is to promote interest in the field of Emergency Medical Services, to provide fellowship among students and faculty, to represent student needs and wants in regard to EMS education and to provide a forum for the presentation of innovative ideas to benefit the college community.

Phi Theta Kappa

Phi Theta Kappa is the international honor society of two-year colleges. Offering opportunities for scholarship, leadership, fellowship and service, the Society also promotes the exchange of ideas and personal enrichment through fellowship with other scholars. Eligibility requirements in the Omicron Psi chapter of Phi Theta Kappa include current enrollment and a minimum GPA of 3.5 after at least 12 hours of college credit earned at Grayson.

Psychology

The Psychology Club exists to provide an entertaining and inspirational atmosphere in which all students can further their knowledge and interest in psychology. The club members attend scheduled events, participate in stimulating discussions and presentations, and promote psychology as a social science.

Radiology Club

The purpose is to educate and develop a student's knowledge of the radiologic science profession, to develop a community awareness of Grayson College's Radiology program, to provide community service opportunities, to promote leadership skills, to increase camaraderie and generosity towards others.

Rotaract Club

Grayson College's Rotaract Club is open to all GC students aged 18-30, both full- and part-time and in any area of study. The Grayson County Rotary sponsor GC's Rotaract, and all of the area Rotary clubs are invited to partner with GC students in mentoring relationships. By definition "Rotary" is an organization of business and professional persons united worldwide who provide humanitarian service, encourage high ethical standards in all vocations, and help build good will and peace in the world. The Rotary motto is "Service Above Self-He Profits Most Who Serves Best."

Science Club

The purpose of the Science Club is to explore the interdisciplinary aspect of science, to encourage student involvement in the sciences, to provide a support group for students enrolled in science courses and to encourage student involvement in community science activities.

Sigma Kappa Delta

National English Honor Society for students in two-year colleges. Students who join Tau Alpha's community of readers and writers inherit a strong tradition. Aristotle, a scientist during the Ancient Greek era, studied literature to gain wisdom. John Milton, a seventeenth-century Cambridge graduate, studied science to impart wisdom through poetry. Among GC's Tau Alphans stand majors in academic studies, applied sciences, education, and fine arts along with those who plan to earn a bachelor's degree in English. What have they in common? They join Aristotle and Milton in their love of literature. In addition, they seek leadership opportunities, enjoy Tau Alpha's festive events with fellow students and English instructors, receive lifelong recognition for academic excellence, and qualify to apply for SKD scholarships and to attend regional and national conferences. To join, candidates must earn a 3.0 grade point average in 12 or more hours of college with a B or better in at least one college English course.

Sisters of Destiny

The purpose of this club is to develop a group of sisters that uplift and encourage one another. We will strive to promote a sense of emotional support with confidentiality. The focus is to build healthy heart, mind and body. We will form lasting relationships with other women and learn to work tighter in a good study environment. This is a support group for women.

Student Ambassador Program

The Grayson College Student Ambassador Program provides an opportunity for students representing various disciplines at our college to develop leadership and public relations skills while providing a service to GC.

Top Innovative Professionals of Service and Spirits (TIPSS)

The purpose of the TIPSS club is to acknowledge, educate, and promote the development of Culinary Arts, Hospitality Management, Viticulture and Enology programs at Grayson College. We will develop community awareness of the above programs as well as participate in food shows, local charity events and fundraising for both students and community.

Veteran Student Association

The purpose of this organization is to provide a supportive, inspirational and informational atmosphere in which veteran students can gather to: further their skills in attaining academic success, gain knowledge of benefits and services available as veterans and students, and to form relationships with others with shared experiences.

Vocational Nursing Students' Association

The Vocational Nursing Students' Association seeks to help further knowledge in the field of vocational nursing. This club participates in many campus activities and programs. Membership in this organization is limited to vocational nursing majors.

Welding Technologies Association

The purpose of the GC Welding Technologies Association is to inform, educate and increase awareness of changes and skills in the field of welding.

Last updated: 06/23/2017

Grayson College

6101 Grayson Drive (Hwy. 691) Denison, TX 75020
(903) 465-6030

Grayson College Course Catalog

Instructional Services

- [Instructional Services](#)

Grayson College Degrees/Certificates and Majors

MAJOR: A major is defined as a subject area of specialization consisting of selected courses within one of the degree or certificate pathways.

Degrees	Subject Areas	Hours Required
Associate of Arts (AA)		
General Studies	LIBA	60
Music	MUSI	60
Drama/Theatre	THEA	60
Associate of Science (AS)		
Biological and Physical Sciences	BPHS	60
Business Administration	BUAD	60
Computer Science/Computer Information Systems	CSI	60
Engineering	ENGR	60
Kinesiology	PHED	60
General Studies	GNED	60
Mathematics	MATH	60
Associate of Arts in Teaching (AAT) Education		
8-12 Certification; EC-12 Other than Special Education	TECAOS	60
4-8 Certification; EC-12 Special Education Certification	TECAWS	60
EC-6 Certification	TECAGS	60
Associate of Applied Science (AAS)		
Advanced Manufacturing Technician	MCHN	60
Accounting	ACCT	60
Business and Management	BMGT	60
Child Development	CDE	60
Collision Repair Technology	CRT	60
Computer Aided Drafting and Design Technology (CADD)	DRAF	60
Computer Maintenance and Networking Technology	CMNT	60
Criminal Justice Technology	CRIJ	60
Culinary Arts	CHEF	60
Cyber Security Administration	CYSA	60
Dental Assisting	DENT	60
Electrical Technology	ELCT	60
Heating, Air Conditioning and Refrigeration Technology	HARC	60
Hospitality Management	HAMG	60
Medical Laboratory Technology	MLT	60
Nursing, Registered	NURS	60
Office and Computer Technology	OCT	60
Paramedicine	EMTP	60
Radiologic Technology	RADR	64

Viticulture and Enology	VIEN	60
Web-Based Small Business Development	WBSBD	60
Welding	WELD	60
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Certificate of Completion (CERT)		
Advanced Manufacturing Technician	MCHNAC	41
Accounting	ACCTC	30
Basic Manufacturing Technician	MCHNBC	18
Basic Mechatronics Technician	MTC	16
<i>Business and Management</i>		
Business Foundation	BFNDC	15
Business—General Management	BMGTC	32
General Banking Level I	BANKGC	22
Bank Operations Level II	BANKOC	42
<i>Child Development</i>		
Child Care Administrator Certificate	CDEC	30
<i>Collision Repair Technology</i>		
Basic Collision Helper	CRTHC	16-19
Basic Collision Apprentice	CRTAC	33-39
<i>Computer Aided Drafting & Design Technology (CADD)</i>		
Computer Aided Drafting Technician	CADC	24
Drafting Assistant	DASTC	17
<i>Computer Maintenance and Networking Technology</i>		
Computer Network Administrator	CNAC	41
Computer Network Technician	CNTC	40
Computer Support Technician	CPMTC	18
Information Technology Core Curriculum	CMITC	18
<i>Cosmetology</i>		
Cosmetology	COSMC	42
Cosmetology Instructor	COSMIC	25
Cosmetology Nail Technician	COSMNC	16
Cosmetology Skin Care Specialist - Aesthetician/Esthetician	COSMSC	22
<i>Criminal Justice</i>		
Law Enforcement	CRIJC	37
Catering and Event Planning	CEPC	36
Culinary Arts	CHEFC	39
Basic Culinary Arts	CHEFBC	25
Cyber Security Technician	CYSAC	36
Dental Assisting	DENTC	35
Drafting (See CADD Technology)		
<i>Electrical Technology</i>		
Basic Electrical Technology ETP-1 Certificate	ELCTBC	22
Maintenance Electrician ETP-2 Certificate	ELCTMC	26
Advanced Electrical Technology ETP-3 Certificate	ELCTAC	42
Emergency Medical Services/ Paramedicine	EMTPC	42
EMS Certificate of Completion	EMSC	16

Heating, Air Conditioning, and Refrigeration Technology

Technician Apprentice	RACIC	32
Technician	RACTC	16

Hospitality Management

Hospitality Management	HAMGC	37
Restaurant Management	HAMGRC	37

Microcomputer Applications

Microcomputer Multi-Media Specialist	MCMMSC	30
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Office and Computer Technology

Accounting Office Support	AOSC	36
Administrative Assistant	AASTC	42
Applications Software Specialist	CASC	30
Medical Administrative Assistant	MAAC	42
Police Academy	PACDC	25

Viticulture & Enology

Enology	VIENEC	17
Viticulture	VIENVC	17
Vocational Nursing	VOCNC	46

Web Based Small Business Development

Web Based Small Business Development Certificate	WBSBDC	34
Web Based Small Business Foundation	WBSBFC	18

Welding

Structural Welder	WELAC	16
Combination Welder	WELBC	36

Occupational Skills Awards

Audio Engineering		
Business and Management Marketing Award	BMGTMS	9
Child Development Associate Award		
Child Development	CDECMS	9
Emergency Medical Services (EMT Basic) Award	EMTBMS	9

Preparatory Programs for College

Preparing for college is a process that should begin by the eighth grade. Although Grayson College does not require specific high school courses for admission into the college, many colleges and universities do include preparatory programs as a condition of admission. Since many of Grayson College's students transfer to such colleges and universities, completion of the following college preparatory coursework is encouraged.

Core Curriculum	Credits	College Preparation Courses
English Language Arts	4	English I-IV
Mathematics	2	Algebra I, Geometry
Science	2	Courses to be selected from state board of education-approved courses, excluding applied and introductory courses. Appropriate courses include: Physical Science, Biology I and II, Chemistry I and II, Physics I and II
Social Studies	4	United States History (1), United States Government (1/2), World

		History Studies (1), Economics (1/2)
Foreign Language	3	Levels I-III proficiency of the same language
Health	1/2	1/2 credit minimum
Fine Arts	1/2	1/2 credit minimum
Physical Education	1 1/2	1 1/2 credits
Computer Science	0-1	Demonstrated proficiency at Level I

In addition to the above general requirements, students are encouraged to select a specific course of study. The following chart indicates suggested additional courses to fulfill the requirements for general college and Tech-Prep preparation. These courses are endorsed by the Texas Higher Education Coordinating Board.

	College Preparation Track	College Tech-Prep Track
English Language Arts	College Board Advanced Placement English Literature and Literature and Composition could be substituted for English IV.	Substitutions for English IV as required for a specific Tech-Prep program (e.g. Research/Technical Writing, Business Communications, Introduction to Speech Communications, Public Speaking).
Mathematics	Two (2) additional credits, including Algebra II and Pre-calculus (or Trigonometry and either Elementary Analysis or Analytic Geometry).	A minimum of one additional credit as required by a specific Tech-Prep program, or Algebra II, Pre-calculus, Trigonometry, Elementary Analysis, Analytic Geometry, or Advanced Mathematics for business. An additional (4th) math credit may be required.
Science	One additional credit from Physical Science, Biology I and II, Chemistry I and II or Physics I and II.	A minimum of one additional credit may be required for a specific Tech-Prep program.
Fine Arts	1/2 credit minimum	As appropriate.
Specialty	N/A	A specified coherent sequence of technology courses required for a specific Tech-Prep program.
Electives	2 1/2	As appropriate.

Online Learning Opportunities

Grayson College acknowledges the changing environments in which students learn and strives to provide enriched educational experiences and opportunities. Internet-based courses, both fully-online and hybrid, offer students an alternative to the traditional classroom by providing convenient ways to earn college credit off-campus. Distance Learning students use their personal computers for course content, discussions, exams, and communication with instructors and classmates. Students enrolled in fully-online and hybrid courses may visit the campus for orientation, conferences with the instructor, and some exams. Instructors are available for telephone and personal conferences and may also be contacted via email.

Hybrid courses blend traditional face-to-face in-class sessions with web-based activities. To be a hybrid course, at least 50% of the content is delivered via the Internet. Both fully-online and hybrid courses offer the same quality and learning experiences and require the same time commitment as traditional, face-to-face courses but with added flexibility. Full college credit is awarded upon successful completion of internet-based courses and credit hours are equivalent to those offered on campus.

Please visit our website at www.grayson.edu for our latest schedule of fully-online and hybrid courses. Fully-online courses will include *INT* or similar designation in the section number. Hybrid courses will contain *HYB* or similar designation in the section number.

Please note that some fully-online courses require on-campus or proctored testing. Consult the course syllabus for complete details.

Getting Started

To take a fully-online or hybrid course, students will need a computer with Internet access. If applicable, additional hardware and/or software requirements will be listed in the syllabus.

Students will be able to access their online courses the same day classes begin on campus. Instructors are available for telephone and personal conferences and may also be contacted via email.

College Support for Online Learners

Academic Advising

For help with individual learning plans, course selection, prerequisites, transfer credits, and more, call 903-463-8695. For more information or for a schedule of hours, please visit <http://www.grayson.edu/website/ApplyNow/academicCounseling.aspx>.

Bookstore

Order your books by telephone at 903-463-8631 or purchase your materials in person at the College Bookstore.

Counseling

Assistance is available in the areas of career guidance, time management, test anxiety, study skills, or personal problems interfering with your academic progress. For an appointment, call 903-463-8695.

Financial Aid

Grants, student loans, and scholarships are available to assist eligible students with college expenses. Call 903-463-8794 or visit <http://www.grayson.edu/website/ApplyNow/financialAidOpportunities.aspx>.

Helpdesk

Assistance is available to answer questions about your course, help you contact your instructor, and provide course navigation instructions. In addition, technical assistance is available to help work through any technology-related barriers that may come up during the online experience. Call 903-463-8788 or email helpdesk@grayson.edu. Additional information is available by clicking on the Help Desk icon at www.grayson.edu.

Library

The Grayson College Library provides online access to a variety of databases that can be accessed off-campus. Those databases are available at: <http://www.grayson.edu/Website/CollegeResources/electronicDatabases.aspx>.

Orientation

The Grayson College Library hosts several Canvas orientation sessions at the beginning of each semester for students who can come to the campus. Login information, various help documents, and instructional/technical support can be found by clicking on the Help Desk icon on the Grayson homepage at www.grayson.edu. In addition, students can call 903-463-8788 or email helpdesk@grayson.edu for additional assistance.

Tutoring

Our tutors help students prepare for tests, learn new concepts, improve study techniques, and answer questions about assignments. We offer tutoring services online and on campus. For more information, call 903-463-8751.

Grayson College Graduate Guarantee

Transfer Guarantee

Grayson College guarantees that courses taken at the College, selected from an official degree plan, will transfer to any selected public-supported college or university in Texas. When a student and an authorized counselor or division dean signs a document listing the student's course of study for a program, this document is considered an official degree plan. If a student takes courses accordingly, and he/she is not accepted at the public-supported college or university, Grayson College will offer to the student, from curriculum as shown in the appropriate edition of the College Catalog, alternate courses that are acceptable, without the cost of tuition/fees to the student.

The College will make this guarantee for all new college students who file an official degree plan with the College Counseling Services Center.

The College will make this guarantee for all presently enrolled students after an authorized counselor or division dean reviews an up-to-date transcript and develops an official degree plan, presented by the student to the College Counseling Services.

In the event of a dispute over the transferability of a Grayson College course at a state-supported college or university, the student must notify Grayson College. If the College cannot resolve the dispute with the college or university, then Grayson College will provide the student — within one year from the time of the dispute — alternate and appropriate courses without the cost of tuition/fees.

Employment Guarantee

If an Associate of Applied Science (A.A.S.) graduate or graduate of a certificate program is judged by his/her employer to be lacking in technical job skills identified as exit competencies for his/her specific degree or certificate programs, the graduate will be provided up to 9 tuition/fee-free credit hours of additional skill training by Grayson College (GC) under the conditions of the guarantee policy. Special conditions which apply to the guarantee include the following:

1. The student must earn his/her degree/certificate in an occupational program listed in Grayson College's catalog as of 1993 spring semester or later.
2. The graduate must have completed the A.A.S. degree or certificate at GC (with a majority of credits being earned at GC) and must have completed the degree/certificate within a four-year time span.
3. The student must be employed full-time within 6 months after graduation in an occupation directly related to the specific program completed at Grayson College.
4. The employer must certify in writing that the student lacks the entry-level job skills identified as such by Grayson College for the program in which he/she is enrolled. The employer must specify the areas of deficiency within 90 days of initial employment.
5. The employer, graduate, division dean, and appropriate faculty member will develop a written educational plan for retraining.
6. Retraining will be limited to 9 credit hours related to the identified skill deficiency and to those classes regularly scheduled during the period covered by the retraining plan.
7. All retraining must be completed within a calendar year from the time the educational plan is agreed upon.

Wireless Access

Grayson College has implemented wireless hotspot access at many locations around the main campus, including the residence halls. Individuals may access the wireless network by using a laptop, notebook, or PDA equipped with a wireless network card supporting either the 802.11B or 802.11G standards.

Early Technical Credit

Early Technical Credit is an initiative of by the college to encourage cooperative efforts between secondary and post-secondary institutions to provide articulated career pathways to employment for students existing from these institutions. A technical articulated career pathway is a six-year plan of courses, beginning with grade nine in the secondary school and continuing through the two-year associate degree program in the community college. Tech Prep programs are designed to prepare a high quality workforce that meets current and future regional labor market demands by ensuring that students exit high school and/or community college with marketable skills and the credentials to pursue higher education.

Grayson College is actively involved in developing and providing Tech Prep associate degree programs in cooperation with the area independent school districts. Tech Prep programs that are currently implemented include Accounting, Business & Management, Child Development, Collision Repair Technology, Culinary Arts, Computer Maintenance, Computer Software & Systems Technology, Criminal Justice, Heating, Air Conditioning & Refrigeration Technology, Office & Computer Technology, and Welding Technology.

The steps a student should follow to participate in Early Technical Credit are:

Pick a career path from one of the occupational clusters while in high school.

Register while in high school to take Tech Prep course work.

Criteria for the award of articulated credit through a high school Tech Prep program:

Students must earn at least a grade of "B" in the courses articulated.

College credit for articulated course(s) will be posted with a grade of "P" to the student's college transcript after the 12th class day of the student's first semester at Grayson College.

Early technical credit must be finalized no later than two years after high school graduation. If you have any questions or would like more information about receiving this articulated credit, please contact the Admissions Office.

Academic Instruction Division

Academic Instruction is made up of the following seven departments: Arts and Humanities, Literature and Languages, Social Sciences, Science, Mathematics and Engineering, Education, and Developmental Studies. Each Associate's degree offered in this division contains a 42-hour core in general education. Objectives of the division include developing in students an appreciation of the creative process, the ability to think critically, the ability to communicate effectively, a desire for lifelong learning, and a humanitarian passion for truth and reason.

Courses offered in the division are designed primarily for transfer. Many courses such as art, music, language, philosophy, humanities, theatre, and a variety of workshops serve a dual purpose. They are available for students planning to transfer to a university, and are also available to members of the community who wish to broaden their educational experience.

A goal of the College is to assure the transferability of its courses; however, because of the diversity of the population served by the College, a community-based institution, students planning to transfer courses to a university or four-year college should take the responsibility of discussing their plans with a counselor from their university-of-choice and a counselor on campus.

Learning Frameworks (PSYC/EDUC 1300)

In order to assist students with becoming college-ready, Grayson College requires the following students to enroll in PSYC/EDUC 1300 (Learning Frameworks).

- Students who do not make a passing score on two or more parts of the TSI test
- Students on academic probation (GPA less than 2.0)
- All First Time in College students with fewer than 15 credits pursuing an Associate of Arts, an Associate of Science, or Associate of Arts in Teaching degree

Learning Frameworks is a three credit hour, college-level, fully transferable course. The Learning Frameworks course teaches techniques for learning that are based on sound psychological findings and learning theory. It is a course that has immediate applications for the student. Topics covered in the Learning Frameworks course include:

- how college is different than high school
- how to be an “A” student
- how to access GC resources
- taking notes
- active learning
- motivation
- goal setting
- time management
- memory
- preparing for exams,
- rehearsal strategies
- improving reading
- improving writing
- career explorations
- learning styles
- managing stress
- fiscal management
- campus safety and security.

For questions about Learning Frameworks, contact:

Dana J. Kermanian, M.Ed.
Learning Frameworks Professor
kermaniand@grayson.edu
903-415-2536

Workforce Education Division

The Workforce Education Division consists of three departments: Career and Human Services, Advanced Manufacturing, and Business and Technology. These departments will provide basic instruction and adequate pre-employment training for students preparing for positions in industry that require high degrees of skill and technical knowledge.

Curricula in these departments meet the needs of four groups of students:

1. Students who plan to transfer to senior colleges or universities at the end of two years to receive a baccalaureate degree.
2. Students in Industrial Technologies who will seek employment after 2 years of study.
3. Students in certificate programs who will seek employment at the end of one semester or 1-year of study.
4. Students already employed who are seeking possible promotional opportunities to comply with their employer's training requirements.

Health Science Division

The philosophy and purpose of the Health Science Division reflect not only those of the College, but also focus on the specific areas of knowledge required for Associate Degree Nursing, Vocational Nursing, Dental Assisting, Medical Laboratory Technology, Emergency Medical Services, and Radiologic Technology. Through specifically designed curricula, students may be able to write the applicable examinations for registry, licensure or certification required by each health-related occupation. After successful completion of all requirements, graduates are readily employable.

Last updated: 09/08/2017

Grayson College

6101 Grayson Drive (Hwy. 691) Denison, TX 75020
(903) 465-6030

Grayson College Course Catalog



- [General Information](#)
- [Financial Information](#)
- [General Academic Policies](#)
- [Academic Regulations](#)
- [Student Services and Activities](#)
- [Instructional Services](#)

Collision Repair Tech

Overview

Grayson College's Collision Repair Technologies program offers three levels of training and skills. Many students start with the Basic Collision Helper Certificate, then build on those skills with the Basic Collision Apprentice Certificate. The highest level is the Associate of Applied Science degree. Grayson College's courses teach the skills recommended by area employers who work in the industry. The program is offered on the Main Campus in the new Career and Technology Center, which is equipped with the latest technology.

Course Requirements

Associate Degree, The Basic Collision Helper Certificate and The Basic Collision Apprentice Certificate require that you have a High School Diploma or GED certificate. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with an Entry Level Technician Certificate or an Associate of Applied Science Degree in Collision Repair Technologies requires successful completion of a Comprehensive Exam.

Local Employers

Bob Utter Ford, Texoma Ford, Team Bonner Chevrolet, Ramey Chevrolet

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
ABDR 1519	5
ABDR 1431	4
ABDR 1307	3
	12
Second Semester	

ABDR 1555	5
ABDR 1558	5
WLDG 1430	4
Mathematics/Life & Physical Science Core	3
<hr/>	
17	
<hr/>	
Third Semester	
ABDR 1411	4
ABDR 2502	5
SPCH 1311, 1315 or 1321	3
Social & Behavioral Science Core*	3
<hr/>	
15	
<hr/>	
Fourth Semester	
ABDR 1453	4
BUSG 2309	3
Lang, Phil, Culture/Creative Arts Core	3
ABDR 2355	3
ENGL 1301	3
<hr/>	
15	

* Check with Advisor.

Capstone Experience: All students must complete the capstone requirement, successful completion of a comprehensive exam prior to graduation.

Certificate Degree Requirements

Basic Collision Apprentice Certificate

Subject	Semester Hours
<hr/>	
First Semester	
ABDR 1519	5
ABDR 1431	4
<hr/>	
9	
<hr/>	
Second Semester	
ABDR 1555	5
ABDR 1558	5
ABDR 1411	4
ABDR 2502	5
ABDR 1453	4
ABDR 2355	3
Any 2 of these courses	8-10
<hr/>	
Third Semester	
ABDR 1555	5
ABDR 1558	5
ABDR 1411	4
ABDR 2502	5
ABDR 1453	4
ABDR 2355	3
Any 2 of these not yet completed	8-10
<hr/>	
Fourth Semester	
ABDR 1555	5
ABDR 1558	5
ABDR 1411	4

ABDR 2502	5
ABDR 1453	4
ABDR 2355	3
Any 2 of these not yet completed	8-10

Capstone Experience: All students must complete the capstone requirement, successful completion of a comprehensive exam prior to graduation.

Basic Collision Helper Certificate

Subject	Semester Hours
First Semester	
ABDR 1519	5
ABDR 1431	4
	9
Second Semester	
ABDR 1555	5
ABDR 1558	5
ABDR 1411	4
ABDR 2502	5
ABDR 1453	4
ABDR 2355	3
Any 2 of these courses	8-10

Capstone Experience: All students must complete the capstone requirement, successful completion of a comprehensive exam prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ABDR 1307 - Auto Body Welding

Fundamentals of automotive welding processes. Skill development in Oxy/acetylene, SMAW, GMAW, and cutting processes in a variety of applications.

Upon completion, students will be able to:

- Skill development in Oxy/acetylene, SMAW, GMAW, and cutting processes in a variety of applications.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

ABDR 1411 - Vehicle Measurement and Damage Repair Procedures

Introduction to damaged vehicle measurement and alignment systems.

Upon completion, students will be able to:

- Introduction to damaged vehicle measurement and alignment systems.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 4.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
-

ABDR 1431 - Basic Refinishing

An introduction to current refinishing products, shop safety, and equipment used in the automotive refinishing industry. Emphasis on surface preparation, masking techniques, and refinishing of trim and replacement parts.

Upon completion, students will be able to:

- current refinishing products, shop safety, and equipment used in the automotive refinishing industry.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 4.0

ABDR 1453 - Fiberglass Repair

A comprehensive course in automotive fiberglass repair including the use of various adhesive, fiberglass matt, and resins used for proper repair procedures

Upon completion, students will be able to:

- fiberglass repair including the use of various adhesive, fiberglass matt, and resins used for proper repair procedures

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 4.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
-

ABDR 1519 - Basic Metal Repair

Basic current metal working techniques, shop safety, proper tool usage, product application, and skill development utilizing various body features including metal principles.

Upon completion, students will be able to:

- Basic current metal working techniques, shop safety, proper tool usage, product application, and skill development utilizing various body features including metal principles.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 5.0

ABDR 1555 - Minor Metal Repair

A course in sheet metal alignment principles using mechanical and hydraulic equipment. Emphasis on attachment devices used to straighten and align exterior body panels.

Upon completion, students will be able to:

- sheet metal alignment principles using mechanical and hydraulic equipment.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 5.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
-

ABDR 1558 - Intermediate Refinishing

Expanded training in mixing and spraying of automotive topcoats. Emphasis on formula ingredient, reducing, thinning, and special spraying techniques. Introduction to partial panel refinishing techniques and current industry paint removal techniques.

Upon completion, students will be able to:

- mixing and spraying of automotive topcoats. Emphasis on formula ingredient, reducing, thinning, and special spraying techniques

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 5.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor

ABDR 2355 - Collision Repair Estimating

An advanced course in collision estimating and development of an accurate damage report

Upon completion, students will be able to:

- collision estimating and development of an accurate damage report

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
-

ABDR 2502 - Auto Body Mechanical and Electrical Service

A course in the repair, replacement, and/or service of collision damaged mechanical or electrical systems. Topics include drive train removal, reinstallation and service; cooling system service and repair; exhaust system service; and emission control systems. Additional topics include wire and connector repair, reading wiring diagrams, and troubleshooting.

Upon completion, students will be able to:

- repair, replacement, and/or service of collision damaged mechanical or electrical systems

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 5.0

Prerequisites:

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

Restrictions:

- Basic Metal Repair or consent of Instructor
-

Accounting

Overview

Every organization profit or non-profit, large or small needs an accountant. The accounting program at Grayson College prepares students for entry level positions in CPA firms, small businesses, manufacturing firms, banks, hospitals, school systems churches, and governmental agencies.

The Associate of Applied Science Degree and the one-year certificate in accounting are designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting profession. Using the "language of business," accountants assemble and analyze, process and communicate essential information about financial operations.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

Graduation with the Associate of Applied Science degree requires successful completion of ACNT 2302. The one-year certificate requires the successful completion of a comprehensive exit exam administered by the Accounting Department. The exam must be completed with at least 70 percent accuracy during the week prior to final exams of the semester in which the coursework is completed.

Local Employers

CIGNA, Wilson N. Jones, TMC, Grayson County offices, TI

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
First Semester	
ACCT 2301 or ACNT 1303 and ACNT 1304	3
ENGL 1301	3
BUSI 1301	3
ITSW 1304	3
BUSG 1304	3
	15
Second Semester	
ACCT 2302	3
MRKG 1311	3
BMGT 1327	3
ECON 2301	3
BMGT 1305	3
	15
Third Semester	
ACNT 1331	3
SPCH 1311	3
Mathematics/Life & Physical Science	3
Language, Philosophy, Culture/Creative Arts	3
ACNT 1311	3
	15
Fourth Semester	
ACNT 1313	3
BUSG 2305	3
ACNT 2302 (CAPSTONE)	3
COSC 1301	3
ACNT 1329	3
	15

Students may substitute alternate courses or choose electives under the direction of the division dean. To graduate, students must demonstrate college readiness in reading, writing, and math, as specified in the College's Developmental Education Plan.

Capstone Requirement: All students must complete the required capstone course Accounting (ACNT) 2302 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

Certificate Degree Requirements

1 Year Certificate Programs

Subject	Semester Hours
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First Semester

ACCT 2301 or ACNT 1303 and ACNT 1304	3
ACNT 1311	3
BUSI 1301	3
BMGT 1305	3
BUSG 1304	3
	15

Second Semester

ACCT 2302	3
ACNT 1329	3
ACNT 1331	3
ITSW 1304	3
ACNT 1313	3
	15

Students may substitute alternate courses or choose electives under the direction of the division dean.
 Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a Capstone experience.

Accounting Marketable Skills Award

Subject	Semester Hours
First Semester	
ACNT 1303	3
ITSW 1304	3
	6
Second Semester	
ACNT 1313	3
	3

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I
- BIOL 1307/1107 Biology for Science Majors II
- BIOL 1308/1108 Biology for Non-Science Majors I
- BIOL 1309/1109 Biology for Non-Science Majors II
- BIOL 1414 Introduction to Biotechnology I
- BIOL 2301/2101 Anatomy & Physiology I
- BIOL 2302/2102 Anatomy & Physiology II
- BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
- BIOL 2320/2120 Microbiology for Non-Science Majors
- BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ACCT 2301 - Principles of Financial Accounting I

Basic concepts and principles of accounting theory and practice for recording, reporting and analyzing financial information in various forms of business enterprise. (R)

Upon completion, students will be able to:

- Concepts and Principles of accounting

Grade Basis: L

Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

ACCT 2302 - Principles of Managerial Accounting II

A continuation of ACCT 2301. Accounting for partnerships and corporations, presentation and analysis of financial statements, stockholders, equity, earnings, dividends, long-term liabilities, investments, income tax, cost accounting, and the managerial uses of accounting data.

Upon completion, students will be able to:

- presentation and analysis of financial statements, stockholders, equity, earnings, dividends, long-term liabilities, investments, income tax, cost accounting

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

Prerequisites:

- [ACCT 2301](#) - Principles of Financial Accounting I
 - [ACNT 1303](#) - Introduction to Accounting I
 - [ACNT 1304](#) - Introduction to Accounting II
-

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
First Semester	
ENGL 1301	3
HIST 1301	3
MATH 1324 or higher	3
EDUC 1300/PSYC 1300 or Component Area Option	3
1	
Life & Physical Sciences Core	3
Science Lab	1

	16
Second Semester	
Component Area Option 2	3
HIST 1302	3
MATH 1325 or higher	3
BUSI 1301	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Third Semester	
ACCT 2301	3
ECON 2301	3
Creative Arts Core	3
GOVT 2305	3
BCIS 1305	3
	15
Fourth Semester	
ACCT 2302	3
ECON 2302	3
GOVT 2306	3
SPCH 1311 or 1321 *	3
Language, Philosophy & Culture Core	3
	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
First Semester	
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
	15
Second Semester	
ACNT 1304	3
BGMT 1305	3
BGMT 1327	3
ECON 2301	3
SPCH 1321 or SPCH 1311 *	3
	15
Third Semester	
BUSG 2305	3

MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
	15

Fourth Semester

ENGL 1301	3
ECON 2302	3
Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Capstone)	3
Language, Philosophy & Culture Core	3
	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304	3
BMGT 1305	3
BMGT 1327	3
ECON 2301	3
SPCH 1311 or 1321 ²	3
	15
Second Semester	
BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
Capstone Exam	
	16

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

²SPCH 1321 is preferred.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303	3
BUSI 1301	3

BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
Certificate Capstone Exam	

15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302	3
MRKG 1311	3
MRKG 2333	3
	9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking
- SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

- MATH 1314 College Algebra
- MATH 1316 Plane Trigonometry
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC 1301 Introductory Sociology
SOC 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ACGR 1407 - Range Management

Study of the practical problems of managing native pastures and range lands. Topics include range land ecology, stocking rates, rotation systems, toxic plants, range reseeding, brush control, and ecological and physiological responses of range vegetation to grazing.

Upon completion, students will be able to:

- Study of the practical problems of managing native pastures and range lands

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 2.0

Accounting

Overview

Every organization profit or non-profit, large or small needs an accountant. The accounting program at Grayson College prepares students for entry level positions in CPA firms, small businesses, manufacturing firms, banks, hospitals, school systems churches, and governmental agencies.

The Associate of Applied Science Degree and the one-year certificate in accounting are designed to provide students with the knowledge and the skills necessary for employment and growth in the accounting profession. Using the "language of business," accountants assemble and analyze, process and communicate essential information about financial operations.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

Graduation with the Associate of Applied Science degree requires successful completion of ACNT 2302. The one-year certificate requires the successful completion of a comprehensive exit exam administered by the Accounting Department. The exam must be completed with at least 70 percent accuracy during the week prior to final exams of the semester in which the coursework is completed.

Local Employers

CIGNA, Wilson N. Jones, TMC, Grayson County offices, TI

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
First Semester	
ACCT 2301 or ACNT 1303 and ACNT 1304	3
ENGL 1301	3
BUSI 1301	3
ITSW 1304	3
BUSG 1304	3
	15
Second Semester	
ACCT 2302	3
MRKG 1311	3
BMGT 1327	3
ECON 2301	3

BMGT 1305	3
<hr/>	
	15
<hr/>	
Third Semester	
ACNT 1331	3
SPCH 1311	3
Mathematics/Life & Physical Science	3
Language, Philosophy, Culture/Creative Arts	3
ACNT 1311	3
<hr/>	
	15
<hr/>	
Fourth Semester	
ACNT 1313	3
BUSG 2305	3
ACNT 2302 (CAPSTONE)	3
COSC 1301	3
ACNT 1329	3
<hr/>	
	15

Students may substitute alternate courses or choose electives under the direction of the division dean. To graduate, students must demonstrate college readiness in reading, writing, and math, as specified in the College's Developmental Education Plan.

Capstone Requirement: All students must complete the required capstone course Accounting (ACNT) 2302 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

Certificate Degree Requirements

1 Year Certificate Programs

Subject	Semester Hours
First Semester	
ACCT 2301 or ACNT 1303 and ACNT 1304	3
ACNT 1311	3
BUSI 1301	3
BMGT 1305	3
BUSG 1304	3
<hr/>	
	15
<hr/>	
Second Semester	
ACCT 2302	3
ACNT 1329	3
ACNT 1331	3
ITSW 1304	3
ACNT 1313	3
<hr/>	
	15

Students may substitute alternate courses or choose electives under the direction of the division dean.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a Capstone experience.

Accounting Marketable Skills Award

Subject	Semester Hours
First Semester	
ACNT 1303	3
ITSW 1304	3
<hr/>	
	6
<hr/>	
Second Semester	

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOVI 1301 Introduction to Sociology
SOVI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ACNT 1303 - Introduction to Accounting I

A study of analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis on understanding the complete accounting cycle and preparing financial statements, bank reconciliation, and payroll. (R)

Upon completion, students will be able to:

- analyzing, classifying, and recording business transactions in a manual and computerized environment

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

ACNT 1304 - Introduction to Accounting II

A study of accounting for merchandising, notes payable, notes receivable, valuation of receivables and equipment, and valuation of inventories in a manual and computerized environment.

Upon completion, students will be able to:

- A study of accounting for merchandising, notes payable, notes receivable, valuation of receivables and equipment, and valuation of inventories in a manual and computerized environment.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Prerequisites:

- [ACNT 1303](#) - Introduction to Accounting I
-

ACNT 1311 - Introduction to Computerized Accounting

Introduction to utilizing the computer in maintaining accounting records with primary emphasis on a general ledger package.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 2.0

ACNT 1313 - Computerized Accounting Applications

Use of the computer to develop and maintain accounting record, and to process common business applications for managerial decision-making. (R)

Upon completion, students will be able to:

- develop and maintain accounting record, and to process common business applications for managerial decision-making

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0
Lab hours: 3.0

ACNT 1329 - Payroll and Business Tax Accounting

A study of payroll procedures, taxing entities, and reporting requirements of local, state, and federal taxing authorities in a manual and computerized environment.

Upon completion, students will be able to:

- payroll procedures, taxing entities, and reporting requirements of local, state, and federal taxing authorities

Grade Basis: L
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 3.0

ACNT 1331 - Federal Income Tax: Individual

A study of the federal tax law for preparation of individual income tax returns.

Upon completion, students will be able to:

- Federal Tax law and Preparation of Individual Income tax returns

Grade Basis: L
Credit hours: 3.0
Lab hours: 3.0

Prerequisites:

- [ACCT 2301](#) - Principles of Financial Accounting I
 - [ACNT 1303](#) - Introduction to Accounting I
 - [ACNT 1304](#) - Introduction to Accounting II
-

ACNT 2302 - Accounting Capstone

Allows students to apply broad knowledge of the accounting profession through discipline specific projects involving the integration of individuals and teams performing activities to simulate workplace situations.

Upon completion, students will be able to:

- Allows students to apply broad knowledge of the accounting profession through discipline specific projects involving the integration of individuals and teams performing activities to simulate workplace situations.

Grade Basis: L
Credit hours: 3.0
Lab hours: 3.0

Restrictions:

- Only AAS Accounting majors may enroll in this course

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
First Semester	
ENGL 1301	3
HIST 1301	3
MATH 1324 or higher	3
EDUC 1300/PSYC 1300 or Component Area Option 1	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Second Semester	
Component Area Option 2	3
HIST 1302	3
MATH 1325 or higher	3
BUSI 1301	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Third Semester	
ACCT 2301	3
ECON 2301	3
Creative Arts Core	3
GOVT 2305	3
BCIS 1305	3
	15
Fourth Semester	

ACCT 2302	3
ECON 2302	3
GOVT 2306	3
SPCH 1311 or 1321*	3
Language, Philosophy & Culture Core	3
	<hr/> 15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
First Semester	
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
	<hr/> 15
Second Semester	
ACNT 1304	3
BGMT 1305	3
BGMT 1327	3
ECON 2301	3
SPCH 1321 or SPCH 1311*	3
	<hr/> 15
Third Semester	
BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
	<hr/> 15
Fourth Semester	
ENGL 1301	3
ECON 2302	3
Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Capstone)	3
Language, Philosophy & Culture Core	3
	<hr/> 15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304	3
BMGT 1305	3
BMGT 1327	3
ECON 2301	3
SPCH 1311 or 1321 ²	3
	15
Second Semester	
BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
Capstone Exam	
	16

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

²SPCH 1321 is preferred.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
Certificate Capstone Exam	
	15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302	3
MRKG 1311	3
MRKG 2333	3
	9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology

GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCl 1301 Introduction to Sociology
SOCl 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

AGCR 1303 - Crop Science

Fundamentals of the development, production, and management of field crops. Topics include the classification and distribution of field crops, botany, soils, plant breeding, pest management, and harvesting

Upon completion, students will be able to:

- classification and distribution of field crops, botany, soils, plant breeding, pest management, and harvesting

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

AGMG 1311 - Introduction to Agribusiness

Introduction to agribusiness management, marketing, and sales in the free enterprise system. Topics include economic principles, finance, risk management, record keeping, budgeting, employee/employer responsibilities, communications, human relation skills, and agricultural career opportunities.

Upon completion, students will be able to:

- agribusiness management, marketing, and sales in the free enterprise system

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 2.0

Computer Technology

ARTC 1325 - Introduction to Computer Graphics

A survey of computer design concepts, terminology, processes, and procedures. Topics include computer graphics hardware, electronic images, electronic publishing, vectorbased graphics, and interactive multimedia. Basics of using graphics application programs. Creating and editing charts, applying attributes and print charts. Special topics include drawing options, adding and creating symbols, using chart templates, and importing data.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 2.0

ARTC 1351 - Digital Video

Producing and editing video and sound for multimedia or web productions. Emphasizes capture, editing, and outputting of video using a desktop digital video workstation.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 2.0

Arts

Overview

For students interested in pursuing an Art degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3

HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
<hr/>	
16	
<hr/>	
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
<hr/>	
14	
<hr/>	
Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
<hr/>	
15	
<hr/>	
Fourth Semester	
GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
<hr/>	
15	

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II

ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCI 1301 Introductory Sociology
SOCI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

ARTS 1301 - Art Appreciation

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts. (R W)

Upon completion, students will be able to:

- Exploration of purposes and processes of architecture, sculpture, painting, and minor arts, with analysis of elements and principles applied to visual expression.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Report Required

ARTS 1303 - Art History I

A chronological analysis of the historical and cultural contexts of the visual arts from prehistoric times to the 14th century. (RW)

Upon completion, students will be able to:

- recognize major styles of architecture, painting, and minor arts from prehistoric times to the Renaissance.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Paper Required
-

ARTS 1304 - Art History II

A chronological analysis of the historical and cultural contexts of the visual arts from the 14th century to the present day. (RW)

Upon completion, students will be able to:

- To recognize Historical examples of architecture, painting, and minor arts from the Renaissance to modern times.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Paper Required
-

ARTS 1311 - Design I

An introduction to the fundamental terminology, concepts, theory, and application of two-dimensional design.

Upon completion, students will be able to:

- terminology, concepts, theory, and structured application of two-dimensional design including point/line, shape, form, value, texture, color, and space.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 5.0

Lab hours: 1.0

ARTS 1312 - Design II

An introduction to the fundamental terminology, concepts, theory, and application of three-dimensional design.

Upon completion, students will be able to:

- fundamental terminology, concepts, theory, and structured application of three-dimensional design, including materials, techniques; relief, free standing, and linear forms; and the effects of light/color

Grade Basis: L

Credit hours: 3.0

Lecture hours: 5.0

Lab hours: 1.0

ARTS 1316 - Drawing I

A foundation studio course exploring drawing with emphasis on descriptive, expressive and conceptual approaches. Students will learn to see and interpret a variety of subjects while using diverse materials and techniques.

Course work will facilitate a dialogue in which students will engage in critical analysis and begin to develop their understanding of drawing as a discipline.

Upon completion, students will be able to:

- Understand Descriptive, expressive, and conceptual use of line and associated arts elements through various mediums. Spatial studies include figure-ground relationships, two-dimensional space, and three-dimensional illusion, including some perspective. Focus on natural and manmade objects and environments

Grade Basis: L

Credit hours: 3.0

Lecture hours: 5.0

Lab hours: 1.0

Restrictions:

- Outside Work Required
-

ARTS 1317 - Drawing II

A studio course exploring drawing with continued emphasis on descriptive, expressive and conceptual approaches. Students will further develop the ability to see and interpret a variety of subjects while using diverse materials and techniques. Course work will facilitate a dialogue in which students will employ critical analysis to broaden their understanding of drawing as a discipline.

Upon completion, students will be able to:

- understand expressive and conceptual aspects of drawing, including advanced compositional arrangements, a range of wet and dry media, and the development of an individual approach to theme and content.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 5.0

Lab hours: 1.0

Prerequisites:

- [ARTS 1316](#) - Drawing I
-

ARTS 1325 - Art for Non-Art Majors

Drawing for Non-Art Majors. Descriptive, expressive, and conceptual use of line and associated arts elements through various mediums. Spatial studies include figure-ground relationships, twodimensional space, and three-dimensional illusion, including some perspective. Focus on natural and manmade objects and environments. Drawing for non-art majors is offered to students who desire to take a studio art class as an elective, life enrichment, or continuing education course. May not be applied to a major in art. OR Painting for Non-Art Majors: Techniques of acrylic painting, Exploring and dealing with the problems encountered in color theory, pictorial compositions, and imagination. Painting for non-art majors is offered to students who desire to take a studio art class as an elective, life enrichment, or continuing education course.

Upon completion, students will be able to:

- Drawing for Non-Art Majors. Descriptive, expressive, and conceptual use of line and associated arts elements through various mediums. Spatial studies include figure-ground relationships, twodimensional space, and three-dimensional illusion, including some perspective. Focus on natural and manmade objects and environments. Drawing for non-art majors is offered to students who desire to take a studio art class as an elective, life enrichment, or continuing education course.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 5.0

Lab hours: 1.0

Restrictions:

- May not be applied to a major in art. OR Watercolor for Non-Art Majors:
- May not be applied to a major in art. OR Watercolor for Non-Art Majors: 158 Beginning problems and principles in watercolor painting. Exploration of watercolor techniques and composition and design
- May not be applied to a major in art.

ARTS 2311 - Design III

Elements and principles of art using two- and three dimensional concepts.

Upon completion, students will be able to:

- understand three-dimensional design concepts, media and construction methods.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required
-

ARTS 2316 - Painting I

Exploration of ideas using painting media and techniques.

Upon completion, students will be able to:

- understand the problems encountered in color theory, pictorial composition, and imagination

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Outside work required
 - Drawing skills strongly recommended
-

ARTS 2317 - Painting II

Exploration of ideas using painting media and techniques.

Upon completion, students will be able to:

- create original work and execute it.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required
 - Drawing skills strongly recommended
-

ARTS 2323 - Life Drawing I

Basic study of the human form.

Upon completion, students will be able to:

- Basic study of the human form

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required
-

ARTS 2324 - Life Drawing II

Expansion of ARTS 2323. Drawing as practice integrating visual, physical, intellectual, and intuitive faculties using the human figure as subject. Stresses expressive and conceptual approaches, a wide range of media, and development of an individual and thematic approach to theme and content

Upon completion, students will be able to:

- Stresses expressive and conceptual approaches, a wide range of media, and development of an individual and thematic approach to theme and content

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Prerequisites:

- [ARTS 2323](#) - Life Drawing I
-

ARTS 2333 - Printmaking I: Relief Printing

Exploration of ideas using various printmaking processes.

Upon completion, students will be able to:

- Understand various printmaking processes

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required
-

ARTS 2346 - Ceramics I

Exploration of ideas using basic ceramic processes.

Upon completion, students will be able to:

- Utilize of basic materials and techniques, including the building of forms, utilization of bisque form glazing and firing procedures and an introduction to the potter's wheel.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required
-

ARTS 2347 - Ceramics II

Exploration of ideas using basic ceramic processes.

Upon completion, students will be able to:

- increase knowledge obtained in arts 2346

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Prerequisites:

- [ARTS 2346](#) - Ceramics I

Restrictions:

- Outside Work Required

ARTS 2366 - Watercolor I

Exploration of ideas using water-based painting media and techniques.

Upon completion, students will be able to:

- Understand watercolor techniques and composition and design.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required

ARTS 2367 - Watercolor II

Expansion of ARTS 2366 with emphasis on originality of conception and execution.

Upon completion, students will be able to:

- Expansion of ARTS 2366 with emphasis on originality of conception and execution.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Restrictions:

- Outside Work Required

Computer Science

Overview

The Computer Science/Computer Information Associate Degree at Grayson College includes a state mandated core of 42 hours and is designed for transfer to four-year institutions. This particular degree plan is a road map for students who wish to major in Computer Science, Computer Information Systems, or Computer Engineering at the university level. All students should routinely consult with an academic advisor at the Grayson Computer Science department and with the university/college of their choice to determine which courses should be taken for its bachelor's degree in their desired major.

AS Degree Requirements

Computer Science/Computer Information Systems

Subject	Semester Hours
First Semester	
COSC 1336*	3
EDUC/PSYC 1300 or Component Area Option	3
ENGL 1301	3
HIST 1301	3
MATH 1314	3
	15

Second Semester

COSC 1437	4
ENGL 1302, 2311 OR SPCH 1321	3
MATH 1324 or 2312	3
Life & Physical Science Core**	3
Approved Life & Physical Science Lab	1
	<hr/> 14

Third Semester

COSC 2336	3
MATH 1342, 2413, ACCT 2301 or BCIS 1305	3
HIST 1302	3
GOVT 2305	3
HUMA 1301, PHIL 1301, 1304 or 2306	3
	<hr/> 15

Fourth Semester

COSC 2325	3
GOVT 2306	3
ECON 2301 or 2302	3
ARTS 1301, DRAMA 1310 or MUSI 1306	3
Approved Life & Physical Sciences Core**	3
Approved Life & Physical Sciences Lab	1
	<hr/> 16

*COSC 1336 should be taken first semester

**Approved Life and Physical Sciences Core: BIOL 1306/1106, BIOL 1307/1107, CHEM 1311/1111, CHEM 1312/1112

PHYS 1301/1101, PHYS 1302/1102, PHYS 2325/2125, PHYS 2326/2126. Choice should be approved by computer science faculty advisor.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCI 1301 Introductory Sociology
SOCI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

BCIS 1305 - Business Computer Applications

Computer terminology, hardware, software, operating systems, and information systems relating to the business environment. The main focus of this course is on business applications of software, including word processing, spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 2.0

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
First Semester	
ENGL 1301	3
HIST 1301	3
MATH 1324 or higher	3
EDUC 1300/PSYC 1300 or Component Area Option 1	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Second Semester	
Component Area Option 2	3
HIST 1302	3
MATH 1325 or higher	3
BUSI 1301	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Third Semester	
ACCT 2301	3
ECON 2301	3
Creative Arts Core	3
GOVT 2305	3
BCIS 1305	3
	15
Fourth Semester	
ACCT 2302	3
ECON 2302	3
GOVT 2306	3
SPCH 1311 or 1321 *	3
Language, Philosophy & Culture Core	3
	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
First Semester	
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
	15
Second Semester	
ACNT 1304	3
BGMT 1305	3
BGMT 1327	3
ECON 2301	3
SPCH 1321 or SPCH 1311 *	3
	15
Third Semester	
BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
	15
Fourth Semester	
ENGL 1301	3
ECON 2302	3
Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Capstone)	3
Language, Philosophy & Culture Core	3
	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304	3
BMGT 1305	3
BMGT 1327	3
ECON 2301	3

SPCH 1311 or 1321 ²	3
<hr/>	
	15

Second Semester

BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
Capstone Exam	
<hr/>	
	16

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

²SPCH 1321 is preferred.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
Certificate Capstone Exam	
<hr/>	
	15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302	3
MRKG 1311	3
MRKG 2333	3
<hr/>	
	9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3

090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I
 PHYS 2325 University Physics I
 PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography

PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

BCIS 1305 - Business Computer Applications

Computer technology, hardware, software, operating systems, and information systems relating to the business environment. The main focus of this course is on business applications of software, including word processing, spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet.

Upon completion, students will be able to:

- Computer technology, hardware, software, operating systems, and information systems relating to the business environment

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Biological and Physical Sciences

Overview

The Biological and Physical Sciences major at Grayson College is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

The program offers General Biology 1 & 2, Survey of Human Anatomy & Physiology, Human Anatomy & Physiology 1 & 2, and Microbiology.

AS Degree Requirements

Associate of Science

Subject	Semester Hours
First Semester	
ENGL 1301	3
Life and Physical Sciences Core	1
Science Lab	3
EDUC 1300/PSYC 1300 or Component Area Option	3

Mathematics Core	3
HIST 1301 or 1302	3
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	16
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Second Semester	
ENGL 1302	3
Life and Physical Sciences Core	3
Science Lab	1
ARTS 1301 , DRAM 1310 or MUSI 1306	3
Component Area Option	3
HIST 1301 or 1302	3
<hr/>	
	16
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Third Semester	
GOVT 2305 or 2306	3
Biological & Physical Science Elective	3
Science Lab	1
Biological & Physical Science Elective	3
Science Lab	1
Language, Philosophy & Culture	3
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	14
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Fourth Semester	
GOVT 2305 or 2306	3
Biological & Physical Science Elective	3
Science Lab	1
Biological & Physical Science Elective	3
Science Lab	1
Social & Behavioral Sciences Core	3
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	14

Note: All sciences must be science major courses. Students are encouraged to select electives that meet the graduation requirement of the senior institution.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

BIOL 1106 - Biology I (lab)

This laboratory-based course accompanies Biology 1306, Biology I. Laboratory activities will reinforce the fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Study and examination of the concepts of cytology, reproduction, genetics, and scientific reasoning are included.

Upon completion, students will be able to:

- fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [BIOL 1306](#) - Biology I

Restrictions:

- College readiness in reading required

BIOL 1107 - Biology II (lab)

This laboratory-based course accompanies Biology 1307, Biology II. Laboratory activities will reinforce study of the diversity and classification of life, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals.

Upon completion, students will be able to:

- reinforce study of the diversity and classification of life, including animals, plants, protists, fungi, and prokaryotes.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [BIOL 1307](#) - Biology II

Restrictions:

- College readiness in reading required
-

BIOL 1108 - Biology for Non-Science Majors Laboratory I (lab)

This laboratory-based course accompanies BIOL 1308, Biology for Non-Science Majors I. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

Upon completion, students will be able to:

- reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [BIOL 1308](#) - Biology for Non-Science Majors I

Restrictions:

- College readiness in reading required
-

BIOL 1109 - Biology for Non-Science Majors II (lab)

This laboratory-based course accompanies BIOL 1309, Biology for Non-Science Majors II. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

Upon completion, students will be able to:

- reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [BIOL 1309](#) - Biology for Non-Science Majors II

Restrictions:

- College readiness in reading required
-

BIOL 1306 - Biology I

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, 159 reproduction, genetics, ecology, and scientific reasoning are included. Laboratory activities will reinforce fundamental concepts learned in lecture. Prerequisite: College readiness in reading required

Upon completion, students will be able to:

- principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BIOL 1307 - Biology II

The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Laboratory activities will reinforce fundamental concepts learned in lecture. Prerequisite: College readiness in reading required.

Upon completion, students will be able to:

- animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BIOL 1308 - Biology for Non-Science Majors I

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Laboratory activities will reinforce biological principles covered in lecture.

Upon completion, students will be able to:

- biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading
-

BIOL 1309 - Biology for Non-Science Majors II

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Laboratory activities will reinforce the principles covered in the lecture.

Upon completion, students will be able to:

- biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading required
-

BIOL 1322 - Nutrition & Diet Therapy I (lecture)

Study of the chemical, physical, and sensory properties of food; nutritional quality; and food use and diet applications. Prevention of illnesses such as cancer, heart disease, osteoporosis, gastrointestinal disorders and obesity discussed. Healthful diet and lifestyle related to food and nutrition controversies are critically evaluated. Prerequisite: College readiness in reading required.

Upon completion, students will be able to:

- Study of the chemical, physical, and sensory properties of food; nutritional quality; and food use and diet applications. Prevention of illnesses such as cancer, heart disease, osteoporosis, gastrointestinal disorders and obesity discussed.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BIOL 1414 - Introduction to Biotechnology I

Overview of classical genetics, DNA structure, the flow of genetic information, DNA replication, gene transcription, protein translation. Principles of major molecular biology and genetic engineering techniques, including restriction enzymes and their uses, major types of cloning vectors, construction of libraries, Southern and Northern blotting, hybridization, PCR, DNA typing. Applications of these techniques in human health and welfare, medicine, agriculture and the environment. Introduction to the human genome project, gene therapy, molecular diagnostics, forensics, creation and uses of transgenic plants and animals, and animal cloning and of the ethical, legal, social issues and scientific problems associated with these technologies. Relevant practical exercises in the above areas.

Upon completion, students will be able to:

- classical genetics, DNA structure, the flow of genetic information, DNA replication, gene transcription, protein translation

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 3.0

Restrictions:

- College readiness in reading and math required
-

BIOL 2101 - Anatomy & Physiology Laboratory I

The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses

Upon completion, students will be able to:

- hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [BIOL 2301](#) - Anatomy and Physiology I (Lecture)

Restrictions:

- College readiness in reading required
-

BIOL 2102 - Anatomy & Physiology Laboratory II

The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including

nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics)

Upon completion, students will be able to:

- endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics)

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Laboratory I
- [BIOL 2301](#) - Anatomy and Physiology I (Lecture)

Restrictions:

- College readiness in reading required
-

BIOL 2120 - Microbiology for Non-Science Majors Laboratory (lab)

This course covers basics of culture and identification of bacteria and microbial ecology. This course is primarily directed at pre-nursing and other preallied health majors and covers basics of microbiology. Emphasis is on medical microbiology, infectious diseases and public health

Upon completion, students will be able to:

- basics of microbiology. Emphasis is on medical microbiology, infectious diseases and public health

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Laboratory I
- [BIOL 2301](#) - Anatomy and Physiology I (Lecture)

Restrictions:

- College readiness in reading required
-

BIOL 2121 - Microbiology for Science Majors (lab)

This laboratory-based course accompanies Biology 2321, Microbiology for Science Majors. Laboratory activities will reinforce principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment.

Upon completion, students will be able to:

- Laboratory activities will reinforce principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [BIOL 1306](#) - Biology I
- [BIOL 1307](#) - Biology II

Restrictions:

- College readiness in reading required
-

BIOL 2301 - Anatomy and Physiology I (Lecture)

Anatomy and Physiology I is the first part of a two course sequence. It is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis

Upon completion, students will be able to:

- structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Laboratory I

Restrictions:

- College readiness in reading required
-

BIOL 2302 - Anatomy and Physiology II (Lecture)

Anatomy and Physiology II is the second part of a two course sequence. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis

Upon completion, students will be able to:

- structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics).

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Laboratory I
- [BIOL 2301](#) - Anatomy and Physiology I (Lecture)

Restrictions:

- College readiness in reading required
-

BIOL 2320 - Microbiology for Non-Science Majors (Lecture)

This course covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and non-science majors. It provides an introduction to historical concepts of the nature of microorganisms, microbial diversity, the importance of microorganisms and acellular agents in the biosphere, and their roles in human and animal diseases. Major topics include bacterial structure as well as growth, physiology, genetics and biochemistry of microorganisms. Emphasis is on medical microbiology, infectious diseases, and public health

Upon completion, students will be able to:

- covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and non-science majors

Grade Basis: L

Credit hours: 3.0

Lab hours: 3.0

Prerequisites:

- [BIOL 2101](#) - Anatomy & Physiology Laboratory I
- [BIOL 2301](#) - Anatomy and Physiology I (Lecture)

Restrictions:

- College readiness in reading required
-

BIOL 2321 - Microbiology for Science Majors

Principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment. Laboratory activities will reinforce principles discussed in lecture.

Upon completion, students will be able to:

- metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment

Grade Basis: L

Credit hours: 3.0

Lab hours: 3.0

Prerequisites:

- [BIOL 1306](#) - Biology I
- [BIOL 1307](#) - Biology II

Restrictions:

- College readiness in reading required
-

BIOL 2404 - Anatomy & Physiology (specialized, single-semester course, lecture & lab)

Study of the structure and function of human anatomy, including neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized.

Upon completion, students will be able to:

- neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 3.0

Restrictions:

- College readiness in reading required
-

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS)** degree and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
First Semester	
ENGL 1301	3
HIST 1301	3
MATH 1324 or higher	3
EDUC 1300/PSYC 1300 or Component Area Option 1	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Second Semester	
Component Area Option 2	3
HIST 1302	3
MATH 1325 or higher	3
BUSI 1301	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Third Semester	
ACCT 2301	3
ECON 2301	3
Creative Arts Core	3
GOVT 2305	3
BCIS 1305	3
	15
Fourth Semester	
ACCT 2302	3
ECON 2302	3
GOVT 2306	3
SPCH 1311 or 1321 *	3
Language, Philosophy & Culture Core	3
	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
First Semester	
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
	15
Second Semester	
ACNT 1304	3
BGMT 1305	3
BGMT 1327	3
ECON 2301	3
SPCH 1321 or SPCH 1311 *	3
	15
Third Semester	
BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
	15
Fourth Semester	
ENGL 1301	3
ECON 2302	3
Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Capstone)	3
Language, Philosophy & Culture Core	3
	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304	3
BMGT 1305	3
BMGT 1327	3
ECON 2301	3

SPCH 1311 or 1321 ²	3
<hr/>	
	15

Second Semester

BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
Capstone Exam	
<hr/>	
	16

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

²SPCH 1321 is preferred.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
Certificate Capstone Exam	
<hr/>	
	15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302	3
MRKG 1311	3
MRKG 2333	3
<hr/>	
	9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3

090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I
 PHYS 2325 University Physics I
 PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography

PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

BMGT 1305 - Communications in Management

Basic theory and processes of communication skills necessary for the management of an organization's workforce.

Upon completion, students will be able to:

- Basic theory and processes of communication skills necessary for the management of an organization's workforce.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BMGT 1327 - Principles of Management

Concepts, terminology, principles, theories, and issues in the field of management.

Upon completion, students will be able to:

- Concepts, terminology, principles, theories, and issues in the field of management

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BMGT 2309 - Leadership

Concepts of leadership and its relationship to management. Prepares the student with leadership and communication skills needed to motivate and identify leadership styles

Upon completion, students will be able to:

- Leadership and communication skills needed to motivate and identify leadership styles

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

BMGT 2370 - Business and Society

Designed to provide students with a Capstone experience associated with the applied science degree in Business and Management. It brings together the various aspects of students' course work from the perspective of business' role in society. Topics include corporate social responsibility, corporate legitimacy and culture, managerial values, business ethics, corporate stakeholders, regulatory and environmental issues, and strategic management.

Upon completion, students will be able to:

- various aspects of students' course work from the perspective of business' role in society. Topics include corporate social responsibility, corporate legitimacy and culture, managerial values, business ethics, corporate stakeholders, regulatory and environmental issues, and strategic management.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Banking

Overview

The Business and Management Department at Grayson College offers two certificates related to Banking: General Banking and Bank Operations. Both are designed to prepare students for employment in the various aspects of the banking industry. The certificates may also be used by people in the banking industry to hone or expand required skills.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The certificates are TSI exempt.

Capstone Experience

Graduation with either the General Banking or Bank Operations Certificates requires successful completion of a Capstone Course.

Certificate Degree Requirements

General Banking Certificate

Subject	Semester Hours
ACCT 2301	4
BUSG 2309	3
MRKG 1311	3
BNKG 1366 or 1391	3
INSR 1351	3
AGMG 1311	3
BNKG 1303 (Capstone)	3
	22

Enroll in BNKG 1303 during the semester you plan to complete the certificate.

Bank Operations Certificate

Subject	Semester Hours
Completion of General Banking Certificate Plus:	22
ACCT 2302	4
BNKG 1443	4
BMGT 1305	3
BUSI 1311 or MRKG 2333	3
BUSG 1303 or MRKG 1302	3
BNKG 1340	3

20

Total for both certificates 42

Enroll in BNKG 1340 during the semester you plan to complete the certificate

BNKG 1303 - Principles of Bank Operation

Overview of the fundamental banking functions and the role of regulation in the banking industry. Explanation of financial products and services to various markets.

Upon completion, students will be able to:

- Understand the role of regulation in the banking industry

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BNKG 1340 - Money and Financial Markets

Monetary policy and its related effects on financial intermediaries. Includes financial markets, regulatory functions, and structures. Addresses investment and funds management.

Upon completion, students will be able to:

- financial markets, regulatory functions, and structures. Addresses investment and funds management

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BNKG 1366 - Field Experience – Banking and Financial Support Services

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Upon completion, students will be able to:

- Individualized learning plan developed by the employer, college, and student.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

BNKG 1391 - Special Topics in Banking and Financial Support Services

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Upon completion, students will be able to:

- current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

BNKG 1443 - Law and Banking—Applications

An introduction to basic sources of law and banking regulation. Emphasis on the laws relating to contracts, negotiable instruments, secured transactions, and consumer credit.

Upon completion, students will be able to:

- Emphasis on the laws relating to contracts, negotiable instruments, secured transactions, and consumer credit

Grade Basis: L
Credit hours: 3.0
Lecture hours: 4.0
Lab hours: 3.0

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
First Semester	
ENGL 1301	3
HIST 1301	3
MATH 1324 or higher	3
EDUC 1300/PSYC 1300 or Component Area Option 1	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Second Semester	
Component Area Option 2	3
HIST 1302	3
MATH 1325 or higher	3
BUSI 1301	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Third Semester	
ACCT 2301	3
ECON 2301	3
Creative Arts Core	3
GOVT 2305	3

BCIS 1305	3
<hr/>	
	15

Fourth Semester

ACCT 2302	3
ECON 2302	3
GOVT 2306	3
SPCH 1311 or 1321 *	3
Language, Philosophy & Culture Core	3
<hr/>	
	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
<hr/>	
First Semester	
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
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	15
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Second Semester	
ACNT 1304	3
BGMT 1305	3
BGMT 1327	3
ECON 2301	3
SPCH 1321 or SPCH 1311 *	3
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	15
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Third Semester	
BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
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	15
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Fourth Semester	
ENGL 1301	3
ECON 2302	3
Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Capstone)	3
Language, Philosophy & Culture Core	3
<hr/>	
	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304	3
BMGT 1305	3
BMGT 1327	3
ECON 2301	3
SPCH 1311 or 1321 ²	3
	15
Second Semester	
BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
Capstone Exam	
	16

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

²SPCH 1321 is preferred.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
Certificate Capstone Exam	
	15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302	3
MRKG 1311	3
MRKG 2333	3

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCI 1301 Introductory Sociology
SOCI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCl 1301 Introduction to Sociology
SOCl 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

BUSG 1302 - E-Business Management

Unique aspects of creating and managing an E-Commerce business; topics address the internet, infrastructure for electronic commerce, markup languages, web-based tools and software, security issues, electronic payment systems, strategies for marketing, sales and purchasing, legal, ethical and tax issues, management functions including how managers plan, exercise leadership, organize, and control the operations.

Upon completion, students will be able to:

- internet, infrastructure for electronic commerce, markup languages, web-based tools and software, security issues, electronic payment systems, strategies for marketing, sales and purchasing, legal, ethical and tax issues, management functions including how managers plan, exercise leadership, organize, and control the operations

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Computer Technology

BUSG 1302 - E Business Management

Unique aspects of creating and managing an E Commerce business; topics address the internet, infrastructure for electronic commerce, markup languages, web based tools and software, security issues, electronic payment systems, strategies for marketing, sales and purchasing, legal, ethical and tax issues, management functions including how managers plan, exercise leadership, organize, and control the operations.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
First Semester	
ENGL 1301	3
HIST 1301	3
MATH 1324 or higher	3
EDUC 1300/PSYC 1300 or Component Area Option 1	3
Life & Physical Sciences Core	3
Science Lab	1
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Second Semester	
Component Area Option 2	3
HIST 1302	3
MATH 1325 or higher	3

BUSI 1301	3
Life & Physical Sciences Core	3
Science Lab	1
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	16

Third Semester

ACCT 2301	3
ECON 2301	3
Creative Arts Core	3
GOVT 2305	3
BCIS 1305	3
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	15

Fourth Semester

ACCT 2302	3
ECON 2302	3
GOVT 2306	3
SPCH 1311 or 1321 *	3
Language, Philosophy & Culture Core	3
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	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
<hr/>	
First Semester	
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
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	15
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Second Semester	
ACNT 1304	3
BGMT 1305	3
BGMT 1327	3
ECON 2301	3
SPCH 1321 or SPCH 1311 *	3
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Third Semester	
BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
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Fourth Semester

ENGL 1301	3
ECON 2302	3
Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Capstone)	3
Language, Philosophy & Culture Core	3
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	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304	3
BMGT 1305	3
BMGT 1327	3
ECON 2301	3
SPCH 1311 or 1321 ²	3
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	15
Second Semester	
BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
Capstone Exam	
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Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

²SPCH 1321 is preferred.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
Certificate Capstone Exam	
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Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302	3
MRKG 1311	3
MRKG 2333	3
	9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

BUSG 1303 - Principles of Finance

Financial dynamics of a business. Includes monetary and credit theory, cash inventory, capital management, and consumer and government finance. Emphasizes the time value of money.

Upon completion, students will be able to:

- Financial dynamics of a business

Grade Basis: L

Credit hours: 3.0
Lecture hours: 3.0

BUSG 1304 - Financial Literacy

A study of the financial principles when managing financial affairs. Includes topics such as budgeting, retirement, property ownership, savings and investment planning.

Upon completion, students will be able to:

- budgeting, retirement, property ownership, savings and investment planning.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 2.0

BUSG 2305 - Business Law/Contracts

Principles of law which form the legal framework for business activity including applicable statutes, contracts, and agency.

Upon completion, students will be able to:

- Principles of law which form the legal framework for business activity including applicable statutes, contracts, and agency.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

BUSG 2309 - Small Business Management

A course on how to start and operate a small business. Topics include facts about a small business, essential management skills, how to prepare a business plan, financial needs, marketing strategies, and legal issues.

Upon completion, students will be able to:

- facts about a small business, essential management skills, how to prepare a business plan, financial needs, marketing strategies, and legal issues.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

BUSI 1301 - Business Principles

Introduction to the role of business in modern society. Includes overview of business operations, analysis of the specialized fields within the business organization, and development of a business vocabulary.

Upon completion, students will be able to:

- overview of business operations, analysis of the specialized fields within the business organization, and development of a business vocabulary.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

BUSI 1311 - Salesmanship

Principles of personal salesmanship including methods and tasks applicable to a wide variety of industries and commercial settings.

Upon completion, students will be able to:

- Understand methods and tasks applicable to a wide variety of industries and commercial settings.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Child Development

Overview

Grayson College offers a Child Development **Associate of Applied Science degree, certificates, and marketable skills awards**. The Child Development AAS degree program is also available in an online format.

This 60-hour degree explores child growth and development and how to interact and provides the strongest education and foundations for all children birth through adolescence with a focus on birth through age eight. This degree has you in the early childhood classrooms from the first semester working and learning. This degree allows for many careers in a variety of fields like child care, physical therapy, occupational therapy, Early Childhood interaction and Head Start.

Course Requirements

The Associate of Applied Science Degree, certificate and marketable skills requires that you have a High School Diploma or equivalent. The Associate of Applied Science requires that you have met TSI requirements.

Capstone Experience

To earn a degree or certificate in this program, students must successfully complete a comprehensive exit exam prior to graduation.

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
First Semester	
CDED 1319	3
CDEC 1323	3
TECA 1354	3
CDEC 1359	3
EDUC/PSYC 1300	3
	15
Second Semester	
TECA 1303	3
TECA 1311	3
ENGL 1301 or SPCH 1311	3
BIOL 1308 , GEOL 1301 , MATH 1332 or MATH 1342	3
CDEC 1313	3
	15
Third Semester	
CDEC 2326	3
TECA 1318	3
Approved Child Development Elective ¹	3
Creative Arts/Language, Philosophy, and Culture Core	3
CDEC 2328	3
	15
Fourth Semester	

CDEC 1356	3
CDEC 2336	3
Approved Elective ²	3
Approved Elective ²	3
CDEC 2380 Cooperative Care	3
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	15

All students must meet with an advisor to determine which courses will transfer to the 4-year school of their choice.

¹Approved Child Development Electives: CDEC 1317, 1321, 1330, 1335, 1339, 1343, 1358, 2304, 2307, 2315, 2322, 2324, 2340, 2341 or Southeastern Oklahoma students see note below.

²Students transferring to Southeastern Oklahoma must take ENGL 1301, 1302 and SOC 1301 as approved electives.

Certificate Degree Requirements

Administrator's Certificate

Subject	Semester Hours
First Semester	
CDEC 2326	3
CDEC 2328	3
CDEC 1319	3
CDEC 1323	3
TECA 1354	3
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	15
Second Semester	
TECA 1318	3
TECA 1303	3
CDEC 1313	3
CDEC 2328	3
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	12

One-Year Certificate

Subject	Semester Hours
First Semester	
CDEC 1319	3
CDEC 1323	3
TECA 1354	3
CDEC 1359	3
TECA 1318	3
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	15
Second Semester	
TECA 1303	3
TECA 1311	3
CDEC 1356	3
CDEC 1359	3
CDEC 1313 (Capstone)	3
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Child Development Marketable Skills Award

Subject	Semester Hours
First Semester	

TECA 1354	3
CDEC 1359	3
TECA 1319	3
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This award does not lead to national CDA credential.

Child Development Associate Training Marketable Skills Award

Subject	Semester Hours
First Semester	
CDEC 1317	3
CDEC 2322	3
CDEC 2324	3
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Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I
- BIOL 1307/1107 Biology for Science Majors II
- BIOL 1308/1108 Biology for Non-Science Majors I
- BIOL 1309/1109 Biology for Non-Science Majors II
- BIOL 1414 Introduction to Biotechnology I
- BIOL 2301/2101 Anatomy & Physiology I
- BIOL 2302/2102 Anatomy & Physiology II
- BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
- BIOL 2320/2120 Microbiology for Non-Science Majors
- BIOL 2321/2121 Microbiology for Science Majors
- CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
- CHEM 1311/1111 General Chemistry I
- CHEM 1312/1112 General Chemistry II
- GEOL 1301/1101 Earth Sciences for Non-Science Majors I
- GEOL 1303/1103 Physical Geology
- GEOL 1304/1104 Historical Geology
- GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CDEC 1313 - Curriculum Resources for Early Childhood Programs

A study of the fundamentals of developmentally appropriate curriculum design and implementation in early care and education programs for children birth through age eight. Field experience required.

Upon completion, students will be able to:

- Fundamentals of curriculum design and implementation in developmentally appropriate programs for children

Grade Basis: L

Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0
Restrictions:

- Field experience required.
-

CDEC 1317 - Child Development Associate Training I

Based on the requirements for the Child Development Associate credential (CDA). Topics include CDA overview, observation skills, and child growth and development. The four functional areas of study are creative, cognitive, physical, and communication.

Upon completion, students will be able to:

- four functional areas of study are creative, cognitive, physical, and communication.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CDEC 1319 - Child Guidance

An exploration of guidance strategies for promoting prosocial behaviors with individual and groups of children. Emphasis on positive guidance principles and techniques, family involvement, and cultural influences. Field experience required

Upon completion, students will be able to:

- Practical application through direct participation with children.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Restrictions:

- Field observation required
-

CDEC 1321 - The Infant and Toddler

A study of appropriate infant and toddler programs (birth to age 3), including an overview of development, quality routines, appropriate environments, materials and activities, and teaching/guidance techniques.

Upon completion, students will be able to:

- development, quality routines, appropriate environments, materials and activities, and teaching/guidance techniques.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CDEC 1323 - Observation and Assessment

A study of observation skills, assessment techniques, and documentation of children's development.

Upon completion, students will be able to:

- observation skills, assessment techniques, and documentation of children's development.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Restrictions:

- Field observation required
-

CDEC 1330 - Growth and Development: 6-14 Years

Principles of child growth and development from six through thirteen years. Focus on physical, cognitive, social, and emotional domains of development.

Upon completion, students will be able to:

- Principles of child growth and development from six through thirteen years. Focus on physical, cognitive, social, and emotional domains of development.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1335 - Early Childhood Development: 3-5 Years

Principles of normal growth and development from three years through five years. Emphasizes physical, emotional, and social development.

Upon completion, students will be able to:

- Principles of normal growth and development from three years through five years. Emphasizes physical, emotional, and social development.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

CDEC 1339 - Early Childhood Development: 0-3 Years

Principles of normal growth and development from conception through three years of age. Emphasizes physical, intellectual, and social/emotional development.

Upon completion, students will be able to:

- Principles of normal growth and development from conception through three years of age. Emphasizes physical, intellectual, and social/emotional development.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1343 - Independent Study in Child Development

Study of an approved career topic. Research, presentation of findings, and practical applications are emphasized as they relate to the selected topic.

Upon completion, students will be able to:

- Research, presentation of findings, and practical applications are emphasized as they relate to the selected topic

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1356 - Emergent Literacy for Early Childhood

An exploration of principles, methods, and materials for teaching young children language and literacy through a play-based integrated curriculum

Upon completion, students will be able to:

- principles, methods, and materials for teaching young children language and literacy through a play-based integrated curriculum.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field experience required
-

CDEC 1358 - Creative Arts for Early Childhood

An exploration of principles, methods, and materials for teaching children music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking.

Upon completion, students will be able to:

- principles, methods, and materials for teaching children music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 1359 - Children with Special Needs

A survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, intervention strategies, available resources, referral processes, the advocacy role, and legislative issues.

Upon completion, students will be able to:

- intervention strategies, available resources, referral processes, the advocacy role, and legislative issues.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2304 - Child Abuse and Neglect

Methods used in the identification of physical, emotional, and sexual abuse and neglect with an emphasis on developing skills for working with children and families. Includes methods of referral to public and private agencies that deal with investigation and treatment.

Upon completion, students will be able to:

- Identification of physical, emotional, and sexual abuse and neglect with an emphasis on developing skills for working with children and families.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2307 - Math and Science for Early Childhood

An exploration of principles, methods, and materials for teaching children math and science concepts and process skills through discovery and play.

Upon completion, students will be able to:

- principles, methods, and materials for teaching children math and science concepts and process skills through discovery and play

Grade Basis: L

Credit hours: 3.0
Lecture hours: 3.0

CDEC 2315 - Diverse Cultural/Multilingual Education

An overview of multicultural education to include relationship with the family and community to develop awareness and sensitivity to diversity related to individual needs of children.

Upon completion, students will be able to:

- multicultural education to include relationship with the family and community to develop awareness and sensitivity to diversity related to individual needs of children.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CDEC 2322 - Child Development Associate Training II

A continuation of the study of the requirements for the Child Development Associate National Credential (CDA). The six functional areas of study include safe, healthy learning environment, self, social and guidance..

Upon completion, students will be able to:

- requirements for the Child Development Associate National Credential (CDA).

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CDEC 2324 - Child Development Associate Training III

Continuation of the requirements for the Child Development Associate National Credential (CDA). Three of the 13 functional areas of study include family, program management and professionalism.

Upon completion, students will be able to:

- Requirements for the Child Development Associate National Credential (CDA).

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CDEC 2326 - Administration of Programs for Children I

Application of management procedures for early child care education programs. Includes planning, operating, supervising, and evaluating programs. Topics cover philosophy, types of programs, policies, fiscal management, regulations, staffing, evaluation, and communication.

Upon completion, students will be able to:

- Application of management procedures for early child care education programs.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CDEC 2328 - Administration of Program for Children II

An in-depth study of the skills and techniques in managing early care and education programs, including legal and ethical Issues, personnel management, team building, leadership, conflict resolution, stress management, advocacy, professionalism, fiscal analysis and planning parent education/partnerships, and technical applications in programs.

Upon completion, students will be able to:

- skills and techniques in managing early care and education programs, including legal and ethical Issues, personnel management, team building, leadership, conflict resolution, stress management, advocacy,

professionalism, fiscal analysis and planning parent education/partnerships, and technical applications in programs.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Field experience required.
-

CDEC 2336 - Approved Child Development Elective

An advanced study of the skills and techniques in administering early care and education programs.

Upon completion, students will be able to:

- An advanced study of the skills and techniques in administering early care and education programs.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2340 - Instructional Techniques for Children with Special Needs

Exploration of development and implementation of curriculum for children with special needs.

Upon completion, students will be able to:

- Exploration of development and implementation of curriculum for children with special needs.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2341 - The School Age Child

A study of appropriate programs for the school age child (5 to 13 years), including an overview of development, appropriate environments, materials, and activities and teaching/guidance techniques.

Upon completion, students will be able to:

- appropriate programs for the school age child (5 to 13 years)

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CDEC 2380 - Cooperative Education Child-Care Provider Assistant

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience

Upon completion, students will be able to:

- Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience

Grade Basis: L

Credit hours: 3.0

Restrictions:

- Field experience required.
-

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line mangers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
First Semester	
CHEF 1205*	3
HAMG 1340	3
HAMG 1221	3
ENGL 1301	3
MATH 1332 or 1314	3
	15
Second Semester	
Social/Behavioral Science Core	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3

HAMG 1213	3
HAMG, PSTR, CHEF or FDST Elective	
<hr/>	
	15

Third Semester

SPCH 1311 or 1321	3
CHEF 2231	3
HAMG 2301	3
HAMG 2307	3
Lang, Phil, Culture/Creative ARTS CORE	3
<hr/>	
	15

Fourth Semester

HAMG 2305	3
HAMG 2332	3
HAMG 2337	3
RSTO 1304	3
HAMG 2167	3
CHEF 1314	
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	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
<hr/>	
First Semester	
CHEF 1205*	2
CHEF 1301	3
HAMG 1221	2
ENGL 1301	3
MATH 1332 or 1314	3
SPCH 1311 or 1321	3
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	16
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Second Semester	
Lang, Phil, Culture/Creative Arts Core	3
PSTR 1301	3
HAMG 1319	3
CHEF 2231	2
CHEF 1345	3
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	14
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Third Semester	
HAMG 2301	3
HAMG 1340	3
PSTR 2331	3
HAMG 1324	3
CHEF 1310	3
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	15

Fourth Semester

RSTO 1304	3
CHEF 1302	3
CHEF 1314	3
Social/Behavioral Science Core	3
CHEF 1164	1
IFWA 1210	2
<hr/>	
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
First Semester	
HAMG 2301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3
RSTO 1304	3
HAMG 2307	3
<hr/>	
	16
Second Semester	
HAMG 2332	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 2337	3
HAMG 1213	2
<hr/>	
	17
Third Semester	
HAMG 2167	1
HAMG 2305	3
<hr/>	
	4

Culinary Arts Certificate

Subject	Semester Hours
First Semester	
CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3
PSTR 1301	3
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	13
Second Semester	
CHEF 1345	3
CHEF 2231	2
CHEF 1302	3
HAMG 1319	3

IFWA 1210 or BIOL 1322	2
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	13

Third Semester

CHEF 1314	3
RSTO 1304	3
PSTR 2331	3
CHEF 1310	3
CHEF 1164	1
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	13

Basic Culinary Skills Certificate

Subject	Semester Hours
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First Semester

CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
PSTR 1301	3
EDU 1300/PSYC 1300	3
<hr/>	
	13

Second Semester

CHEF 1345	3
CHEF 1310	3
CHEF 2231	2
RSTO 1304	3
POFT 1120	1
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	12

Catering and Event Planning Certificate

Subject	Semester Hours
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First Semester

TRVM 2333	3
CHEF 1205	2
TRVM 1327	3
CHEF 1301	3
HAMG 1340	3
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	14

Second Semester

RSTO 2307	3
CHEF 2231	2
CHEF 1310	3
FDST 2433	4
POFT 1120	1
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	13

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CHEF 1164 - Practicum (or Field Experience)

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 6.0

CHEF 1205 - Sanitation and Safety

Study of personal cleanliness; sanitary practices in food preparation; causes, investigation, control of illness caused by food contamination (Hazard Analysis Critical Control Points); and work place safety standards.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0
Lab hours: 1.0

CHEF 1301 - Basic Food Preparation

A study of the fundamental principles of food preparation and cookery to include Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition, and professionalism. Professional chef uniform and kitchen tools required. Lab included. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

CHEF 1310 - Garde Manger

A study of specialty foods and garnishes. Emphasis on design, techniques, and display of fine foods. Lab included.
Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
 - [CHEF 1301](#) - Basic Food Preparation
-

CHEF 1314 - A La Carte Cooking

A course in a la carte or "cooking to order" concepts. Topics include menu and recipe interpretation and conversion, organization of work station, employment of appropriate cooking methods, plating, and saucing principles. Lab included.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 5.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
 - [CHEF 1301](#) - Basic Food Preparation
-

CHEF 1345 - International Cuisine

The study of classical cooking skills associated with the preparation and service of international and ethnic cuisine. Topics include similarities between food production systems used in the United States and other regions of the world. Professional chef uniform and kitchen tools required. Lab included.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
 - [CHEF 1301](#) - Basic Food Preparation
-

CHEF 2231 - Advanced Food Preparation

Advanced concepts of food preparation and presentation techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lecture hours: 1.0
Lab hours: 4.0

CHEF 2302 - Saucier

Instruction in the preparation of stocks, soups, classical sauces, contemporary sauces, accompaniments, and the pairing of sauces with a variety of foods. Lab included.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
- [CHEF 1301](#) - Basic Food Preparation

Chemistry

Overview

For students planning to pursue a Chemistry major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in General Studies** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AS Degree Requirements

Associate of Science - General Studies

The General Studies AS degree at Grayson College is designed for transfer into STEM, Social or Behavioral Sciences, Humanities, Language or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students desired major. For a STEM major, we recommend taking elective courses in Science or Mathematics.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3

Component Area Option	1
<hr/>	
	14
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Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
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	15
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Fourth Semester	
GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
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	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking
- SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

- MATH 1314 College Algebra
- MATH 1316 Plane Trigonometry
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOVI 1301 Introductory Sociology
SOVI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

CHEM 1111 - General Chemistry I (lab)

Basic laboratory experiments supporting theoretical principles presented in CHEM 1311; introduction of the scientific method, experimental design, data collection and analysis, and 163 preparation of laboratory reports.

Upon completion, students will be able to:

- scientific method, experimental design, data collection and analysis, and 163 preparation of laboratory reports.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [CHEM 1311](#) - General Chemistry I
- [MATH 1314](#) - College Algebra

Restrictions:

- High school chemistry is strongly recommended.
-

CHEM 1112 - General Chemistry II (lab)

Basic laboratory experiments supporting theoretical principles presented in CHEM 1312; introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports.

Upon completion, students will be able to:

- introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [CHEM 1311](#) - General Chemistry I
- [CHEM 1312](#) - General Chemistry II

Restrictions:

- College readiness in reading and math required.
-

CHEM 1311 - General Chemistry I

Lecture: Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry Lab: Basic laboratory experiments supporting theoretical principles presented in lecture; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports.

Upon completion, students will be able to:

- Basic laboratory experiments supporting theoretical principles presented in lecture; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Restrictions:

- High school chemistry is strongly recommended.
-

CHEM 1312 - General Chemistry II

Lecture: Chemical equilibrium; phase diagrams and spectrometry; acidbase concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry. Lab: Basic laboratory experiments supporting theoretical principles presented in Lecture; introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports

Upon completion, students will be able to:

- organic chemistry and descriptive inorganic chemistry.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [CHEM 1311](#) - General Chemistry I

Restrictions:

- College readiness in reading and math required
-

CHEM 1406 - Introductory Chemistry I (lecture + lab, allied health emphasis)

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students. Organic and biological chemistry are emphasized. This course provides the basic chemical background for understanding metabolism and other biological processes which occur in living organisms. Not to be taken by science majors.

Upon completion, students will be able to:

- basic chemical background for understanding metabolism and other biological processes which occur in living organisms

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- College readiness in reading required.
-

CHEM 2123 - Organic Chemistry I (lab, 1 SCH version)

This laboratory-based course accompanies CHEM 2323, Organic Chemistry I. Laboratory activities will reinforce fundamental principles of organic chemistry, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. Methods for the purification and identification of organic compounds will be examined.

Upon completion, students will be able to:

- fundamental principles of organic chemistry, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [CHEM 1312](#) - General Chemistry II

Restrictions:

- College readiness in reading is required
-

CHEM 2125 - Organic Chemistry II (lab, 1 SCH version)

This laboratory-based course accompanies CHEM 2325, Organic Chemistry II. Laboratory activities reinforce advanced principles of organic chemistry, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules.

Upon completion, students will be able to:

- principles of organic chemistry, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms.

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [CHEM 2325](#) - Organic Chemistry II

Restrictions:

- College readiness in reading is required
-

CHEM 2323 - Organic Chemistry I

Lecture: Fundamental principles of organic chemistry will be studied, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. This course is intended for students in science or pre-professional programs. Lab: Laboratory activities will reinforce fundamental principles of organic chemistry, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives.

Upon completion, students will be able to:

- Understand the fundamental principles of organic chemistry

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [CHEM 1312](#) - General Chemistry II

Restrictions:

- College readiness in reading is required
-

CHEM 2325 - Organic Chemistry II

Lecture: Advanced principles of organic chemistry will be studied, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. This course is intended for students in science or pre-professional programs. Lab: Laboratory activities reinforce advanced principles of organic chemistry, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives

Upon completion, students will be able to:

- Understand the advanced principles of organic chemistry.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [CHEM 2323](#) - Organic Chemistry I

Restrictions:

- College readiness in reading is required
-

Criminal Justice Technology

Overview

Grayson College offers an Associate of Applied Science degree in Criminal Justice and a Certificate in Law Enforcement. A separate offering is available at the Texoma Regional Police Academy, which includes classroom, hands-on activities and physical training to produce graduates ready to enter the workforce. Police Academy graduates earn a Certificate of Completion.

The Criminal Justice AAS degree program is also available in an online format.

Courses that start with CJSA may also be taken for non-credit through the GC Continuing Education division.

Course Requirements

The Associate of Applied Science Degree requires that you have a High School Diploma or an equivalent and that you have satisfied TSI requirements.

Capstone Experience

Graduation with an Associate of Applied Science Degree in Criminal Justice requires successful completion of a Comprehensive Exit Exam.

Local Employers

Grayson County Sheriffs Department, Sherman Police Department, Denison Police Department, Pottsboro Police Department, Howe Police Department

AAS Degree Requirements

Associate of Applied Science - Criminal Justice Technology

Subject	Semester Hours
First Semester	
CRIJ 1301 / CJSA 1322	3
CRIJ 1310 / CJSA 1327	3
EDUC/PSYC 1300	3
ENGL 1301	3
HIST 1301	3
	15
Second Semester	
CRIJ 2314 / CJSA 1342	3
CRIJ 1306 / CJSA 1313	3
CRIJ 1307 / CJSA 1312	3
HIST 1302	3
ENGL 2311	3
	15
Third Semester	
CRIJ 2301 / CJCR 2324	3
CRIJ 2313 / CJCR 1307	3
CRIJ 2323 / CJSA 2300	3
GOVT 2305	3
PSYC 2301 or SOC 1301	3
	15
Fourth Semester	
CRIJ 2328 / CJSA 1359	3
CJSA 2334	3
Creative Arts Core	3
Physical Science Core	3
Elective	3
	15

Certificate Degree Requirements

Law Enforcement Certificate

Subject	Semester Hours
Four CRIJ/CJSA courses	12
CJLE 1506	5
CJLE 1512	5
CJLE 1518	5
CJLE 1524	5
CJLE 1329	3
CJLE 1211	2
	37

Capstone Requirement: All students must pass the Texas Commission on Law Enforcement (TCOLE) Basic Peace Officer Exam.

Students who desire Associate of Applied Science Degree, see degree requirements.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCl 1301 Introduction to Sociology
SOCl 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CJCR 1307 - Correctional System

Corrections in the criminal justice system; organization of correctional systems; correctional role; institutional operations; alternatives to institutionalization; treatment and rehabilitation; current and future issues. End-Of-Course Outcomes: Describe historical trends; identify the organization and role of corrections; distinguish operations and procedure within correctional programs; and evaluate rehabilitation, alternatives to institutionalization, and future issues.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJCR 2324 - Community Resources in Corrections

An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment. End-Of-Course Outcomes: Identify alternatives to incarceration; compare and contrast the strengths and weaknesses inherent in contemporary models of intermediate sanctions; and appraise future trends in community treatment options.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Police Academy

Overview

The Texoma Regional Police Academy (TRPA) at Grayson College offers a 22 week (864 hours) daytime program designed to prepare students for a very exciting, challenging, and rewarding career in law enforcement. TRPA also offers a 44 week part time evening academy class for those who cannot afford to leave their daytime jobs. Students are awarded 25 credit hours of college credit for the completion of the Police Academy program at Grayson College. The police academy is accredited by The Texas Commission on Law Enforcement.TCOLE.

Throughout the program, students will participate in classroom instruction and live training exercises. Individuals completing the day or night Academy and passing the TCOLE state-licensing exam are certified to seek appointment in state and local law enforcement agencies, throughout Texas, as a full time peace officer or reserve officer.

To be admitted to TRPA students must meet the following minimum entrance requirements:

- At least 21 years of age at the time of graduation from the course.
- Be of good moral character.
- Provide a completed application form to the Texoma Regional Police Academy and be interviewed personally.
- Comply with all TCOLE Minimum Standards for Licensing. (Go to <http://www.tcole.texas.gov/>. Help and Resources; Rules and Policy; Commission Rules; Par 7 Chapter 215; 215.15.
- Submit to electronic fingerprinting by Murphy Trust USA, and cleared by TCOLE.
- Take a psychological exam with a reading test: score a 12th grade reading level.
- Enroll in Grayson College.

Certificate Degree Requirements

Texoma Regional Police Academy Certificate

Subject	Semester Hours
First Semester	
CJLE 1506	5
CJLE 1512	5
CJLE 1518	5
CJLE 1524	5
CJLE 1329	3
CJLE 1211	2
	25

CJLE 1211 - Basic Firearms

Supplemental course taken in conjunction with Basic Peace Officer Courses I, II, III, IV and V. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lecture hours: 1.0
Lab hours: 4.0

CJLE 1329 - Basic Peace Officer V

Supplemental course taken in conjunction with Basic Peace Officer Courses I, II, III, IV, and Basic Firearms. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 8.0

CJLE 1506 - Basic Peace Officer I

Supplemental course taken in conjunction with Basic Peace Officer Courses II, III, IV, V and Basic Firearms. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: LP

Credit hours: 5.0

Lecture hours: 2.0

Lab hours: 9.0

CJLE 1512 - Basic Peace Officer II

Supplemental course taken in conjunction with Basic Peace Officer Courses I, III, IV, V and Basic Firearms. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: LP

Credit hours: 5.0

Lecture hours: 4.0

Lab hours: 3.0

CJLE 1518 - Basic Peace Officer III.

Supplemental course taken in conjunction with Basic Peace Officer Courses I, II, IV, V and Basic Firearms. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: LP

Credit hours: 5.0

Lecture hours: 2.0

Lab hours: 9.0

CJLE 1524 - Basic Peace Officer IV

Supplemental course taken in conjunction with Basic Peace Officer Courses I, II, III, V and Basic Firearms. Satisfies or exceeds the Texas Commission on Law Enforcement (TCOLE) approved Basic Peace Officer Academy Course 1000643. Basic preparation for a new peace officer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: LP
Credit hours: 5.0
Lecture hours: 2.0
Lab hours: 9.0

Criminal Justice Technology

Overview

Grayson College offers an Associate of Applied Science degree in Criminal Justice and a Certificate in Law Enforcement. A separate offering is available at the Texoma Regional Police Academy, which includes classroom, hands-on activities and physical training to produce graduates ready to enter the workforce. Police Academy graduates earn a Certificate of Completion.

The Criminal Justice AAS degree program is also available in an online format.

Courses that start with CJSA may also be taken for non-credit through the GC Continuing Education division.

Course Requirements

The Associate of Applied Science Degree requires that you have a High School Diploma or an equivalent and that you have satisfied TSI requirements.

Capstone Experience

Graduation with an Associate of Applied Science Degree in Criminal Justice requires successful completion of a Comprehensive Exit Exam.

Local Employers

Grayson County Sheriffs Department, Sherman Police Department, Denison Police Department, Pottsboro Police Department, Howe Police Department

AAS Degree Requirements

Associate of Applied Science - Criminal Justice Technology

Subject	Semester Hours
First Semester	
CRIJ 1301 / CJSA 1322	3
CRIJ 1310 / CJSA 1327	3
EDUC/PSYC 1300	3
ENGL 1301	3
HIST 1301	3
	15
Second Semester	
CRIJ 2314 / CJSA 1342	3
CRIJ 1306 / CJSA 1313	3
CRIJ 1307 / CJSA 1312	3
HIST 1302	3
ENGL 2311	3
	15
Third Semester	
CRIJ 2301 / CJCR 2324	3
CRIJ 2313 / CJCR 1307	3
CRIJ 2323 / CJSA 2300	3
GOVT 2305	3

PSYC 2301 or SOCJ 1301	3
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	15
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Fourth Semester	
CRIJ 2328 / CJSA 1359	3
CJSA 2334	3
Creative Arts Core	3
Physical Science Core	3
Elective	3
<hr/>	
	15

Certificate Degree Requirements

Law Enforcement Certificate

Subject	Semester Hours
Four CRIJ/CJSA courses	12
CJLE 1506	5
CJLE 1512	5
CJLE 1518	5
CJLE 1524	5
CJLE 1329	3
CJLE 1211	2
<hr/>	
	37

Capstone Requirement: All students must pass the Texas Commission on Law Enforcement (TCOLE) Basic Peace Officer Exam.

Students who desire Associate of Applied Science Degree, see degree requirements.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CJSA 1308 - Criminalistics I

Introduction to the field of criminalistics. Topics include the application of scientific and technical methods in the investigation of crime including location, identification, and handling of evidence for scientific analysis.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1312 - Crime in America

American crime problems in historical perspective; social and public policy factors affecting crime; impact and crime trends; social characteristics of specific crime; prevention of crime. End-of-Course Outcomes: Explain the psychological, social, and economic impact of crime in society; and identify characteristics and prevention of major crimes. Cross Reference: This course is parallel to the Academic Course Guide Manual (ACGM) course, CRIJ 1307.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1313 - Court Systems and Practices

The judiciary in the criminal justice system; structure of the American court system; prosecution; right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence, sentencing. End-of-Course Outcomes: Describe the American judiciary system and its structure; identify the roles of judicial officers; identify the trial processes from pretrial to sentencing; and interpret the role of evidence.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1322 - Introduction to Criminal Justice

History and philosophy of criminal justice and ethical considerations; crime defined; its nature and impact; overview of criminal justice system; law enforcement; prosecution and defense; trial process; corrections. End-of-Course Outcomes: Describe and explain the history, philosophy and ethical considerations of criminal justice; define the nature and impact of crime on society and how it is integrated in to the criminal justice system; distinguish between the civil and criminal courts; and interpret the relationship between the components of the criminal justice system.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1327 - Fundamentals of Criminal Law

A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility. End-of-Course Outcomes: Explain the historical and philosophical development of the nature of criminal law; describe definitions and concepts of criminal law, classifications of crimes, the elements of offenses and penalties using Texas statutes as illustrations; and discuss criminal responsibilities as they apply to the criminal statutes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1342 - Criminal Investigation

Investigative theory; collection and preservation of evidence; source of information; interview and interrogation; uses of forensic sciences; case and trial preparation. End-Of-Course Outcomes: Define the goals and objectives of criminal investigations; illustrate the use of forensic science for various statutory offenses; and organize the criminal case including field notes, reports, crime scene activities, and mandatory documentation of statutory warning. Licensing/Certification Agency: Texas Commission of Law Enforcement.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1359 - Police Systems and Practices

The police profession; organization of law enforcement systems; the police role; police discretion; ethics; police-community interaction; current and future issues. End-Of-Course Outcomes: Explain the application of ethics, discretion, and sensitivity to the police profession; and describe the organization of law enforcement systems and its relationship to current and future issues.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 1393 - Special Topics in Criminal Justice

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be multiple times to improve student proficiency

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 2300 - Legal Aspects of Law Enforcement

Police authority; responsibilities; constitutional constraints; laws of arrest, search, and seizure; police liability. End-Of-Course Outcomes: Define police authority, explain the responsibilities and constitutional restraints as enumerated in the Texas Constitution, United States Constitution, and Bill of Rights. Outline the law of arrest and search and seizure

developed through court decisions and describe the criminal and civil liability that result from improper acts and/or the failure to act.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 2323 - Criminalistics II

Theory and practice of crime scene investigation. Topics include report writing, blood and other body fluids, document examination, etchings, casts and molds, glass fractures, use of microscope, and firearms identification.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 2334 - Contemporary Issues in Criminal Justice

A series of lectures and class participation exercises presenting selected topics currently confronting criminal justice personnel and the public they serve.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CJSA 2338 - Internship in Criminal Justice

An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a criminal justice agency. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the college and that are directly related to specific occupational outcomes. This may be a paid or unpaid experience. This course may be repeated if topics and learning outcomes vary

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Restrictions:

- Instructor permission required to enroll
 - 144 Lab hours required
-

Electrical Technology

Overview

Electricians are needed to install and maintain electrical power, communications, lighting, and control systems in homes, businesses, and factories. They work indoors and outdoors, in nearly every type of facility. Almost all electricians work full time, which may include evenings and weekends. Although the work is not as dangerous as other construction occupations, potential injuries include electrical shocks and burns, cuts, and falls.

According to the Occupational Outlook Handbook, most electricians learn through an apprenticeship, and many start out by attending a technical school. Most states require electricians to be licensed. The median annual wage for electricians was \$49,840 in May 2012.

Employment of electricians is projected to grow 20 percent from 2012 to 2022, faster than the average for all occupations. As homes and businesses require more wiring, electricians will be needed to install the necessary components. Electricians with the widest variety of skills should have the best job opportunities.

Grayson College's Electrician Technology program is located on the south campus in Van Alstyne and offers three levels of certificates leading to an AAS degree.

Course Requirements

The Associate of Applied Science Degree and the Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a Comprehensive Exam.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	2
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1329	3
ELPT 2164	1
ELTN 1343	3
	13
Third Semester	
ENGL 1301	3
ELPT 1341	3
ELPT 2343	3
ELPT 1357	3
IEIR 1312	3
ELPT 2319	3
	18
Fourth Semester	
ITSC 1309	3
MATH 1332	3
ELPT 2165	1
Social & Behavioral Science Core	3
Lang, Phil, Culture/Creative Arts Core	3
ENGL 2311	3
	16

Certificate Degree Requirements

Certificate – Basic Electrical Technology ETP-1

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	2
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1329	3
	9

Certificate – Maintenance Electrician ETP-2

Subject	Semester Hours
First Semester	
CNBT 1300	2
ELPT 1215	3
ELPT 1311	3
	8
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1341	3
	9
Third Semester	
ELPT 1357	3
ELPT 2319	3
ELPT 2350	3
	9

Certificate – Advanced Electrical Technology ETP-3

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	3
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT1329	3

ELPT 2164	1
ELTN 1343	3
<hr/>	
	13
<hr/>	
Third Semester	
ELPT 2343	3
ELPT 1341	3
IEIR 1312	3
ELPT 1357	3
ELPT 2319	3
ELPT 2165	1
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Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCI 1301 Introduction to Sociology
SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CNBT 1300 - Residential and Light Commercial Blueprint Reading

Introductory blueprint reading for residential and light commercial construction. Scale prints with architectural and engineering scales; identify construction blueprint symbols and abbreviations; interpret a set of construction contract documents; and correlate elevations, sections, details, plan views, schedules, and general notes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Computer Science

Overview

The Computer Science/Computer Information Associate Degree at Grayson College includes a state mandated core of 42 hours and is designed for transfer to four-year institutions. This particular degree plan is a road map for students who wish to major in Computer Science, Computer Information Systems, or Computer Engineering at the university level. All students should routinely consult with an academic advisor at the Grayson Computer Science department and with the university/college of their choice to determine which courses should be taken for its bachelor's degree in their desired major.

AS Degree Requirements

Computer Science/Computer Information Systems

Subject	Semester Hours
First Semester	
COSC 1336*	3
EDUC/PSYC 1300 or Component Area Option	3
ENGL 1301	3
HIST 1301	3
MATH 1314	3
	15
Second Semester	
COSC 1437	4
ENGL 1302 , 2311 OR SPCH 1321	3
MATH 1324 or 2312	3
Life & Physical Science Core**	3
Approved Life & Physical Science Lab	1
	14
Third Semester	
COSC 2336	3
MATH 1342 , 2413 , ACCT 2301 or BCIS 1305	3
HIST 1302	3
GOVT 2305	3
HUMA 1301 , PHIL 1301 , 1304 or 2306	3
	15
Fourth Semester	
COSC 2325	3
GOVT 2306	3
ECON 2301 or 2302	3
ARTS 1301 , DRAMA 1310 or MUSI 1306	3
Approved Life & Physical Sciences Core**	3
Approved Life & Physical Sciences Lab	1
	16

*COSC 1336 should be taken first semester

**Approved Life and Physical Sciences Core: BIOL 1306/1106, BIOL 1307/1107, CHEM 1311/1111, CHEM 1312/1112

PHYS 1301/1101, PHYS 1302/1102, PHYS 2325/2125, PHYS 2326/2126. Choice should be approved by computer science faculty advisor.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in

their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I

PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

COSC 1102 - Internet Research Essentials

Introduction to the Internet. Students will learn how to connect to the Internet through Windows, a brief history, electronic mail, security, research tools, file transfer protocol, Telnet, and use of the World Wide Web for research. Internet ethics (Ethics) and etiquette (netiquette) will also be covered. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 1.0

COSC 1301 - Introduction to Computer Science

Overview of computer systems-hardware, operating systems, and microcomputer application software, including the Internet, word processing, spreadsheets, presentation graphics, and databases. Current issues such as the effect of computers on society, and the history and use of computers in business, educational, and other modern settings are also studied. This course is not intended to count toward a student's major field of study in business or computer science.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

COSC 1330 - Computer Programming

Computer programming in various programming languages. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [COSC 1336](#) - Programming Fundamentals I.
-

COSC 1336 - Programming Fundamentals I.

Introduces the fundamental concepts of structured programming. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. (RM)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

COSC 1437 - Programming Fundamentals II.

Review of control structures and data types. Applies the object oriented programming paradigm, focusing on the definitions and use of classes along with the fundamentals of object oriented design. Includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [COSC 1336](#) - Programming Fundamentals I.
-

COSC 2325 - Computer Organization and Machine Language

Basic computer organization; machine cycle, digital representation of data and instruction; assembly language programming, assembler, loader, macros, subroutines, and program linkages. Prerequisite: COSC 1336 with a grade of "C" or better and consent of instructor. (RM)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

COSC 2330 - Advanced Structured Languages

Further applications of programming techniques. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Prerequisites:

- [COSC 1336](#) - Programming Fundamentals I.
-

COSC 2336 - Programming Fundamentals III

Further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include recursion, fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs) and algorithmic analysis.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Prerequisites:

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

GC offers an **Associate of Applied Science degree in Computer Maintenance and Networking** which is the culmination of the certificates along with the core curriculum to produce a well-rounded employee. The Grayson College training offers the following Certificates of Completion options:

Computer Network Administration prepares the student to pass the Microsoft Certified System Administrator exams. This program covers basic networking fundamentals, LINUX, Microsoft Operating Systems, and server administration. Students will also be qualified to take the A+ and Network+ exams.

Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
First Semester	
ENGL 1301	3
CPMT 1303	3
Elective*	3
ITNW 1325	3
CPMT 1311	3
	15
Second Semester	
ITNW 1354	3
CPMT 2350	3
CPMT 1345	3

Elective*	3
Mathematics/Life & Physical Science Core	3
	15

Third Semester

ITSY 1300	3
ITNW 1351	3
Elective*	3
Language, Philosophy, Culture/Creative Arts	3
	15

Fourth Semester

CPMT 2345	3
CPMT 1349	3
Elective*	3
ITSC 1316	3
Social & Behavioral Science Core	3
	15

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration

Subject	Semester Hours
First Semester	
ITSY 1300	3
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
	12
Second Semester	
ITSC 2339	3
CPMT 2350	3
CPMT 1345	3
ITSC 1416	4
	13
Third Semester	
ITNW 1354	3
ITNW 1308	3
	6
Fourth Semester	
CPMT 1349	3
CPMT 2345	3
ITNW 2305	3
	9

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
First Semester	
EECT 1407	4
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
	13
Second Semester	
CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
ITSC 1416	4
	13
Third Semester	
ITNW 1354	3
ITSY 1300	3
	6
Fourth Semester	
CPMT 1349	3
ITNW 2305	3
CPMT 2345	3
	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
First Semester	
CPMT 1303	3
CPMT 1311	3
ITNW 1325	3
	9
Second Semester	
CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CPMT 1303 - Intro to Computer Technology

A fundamental computer course that provides explanation of the utilization of computer hardware and software with an emphasis on terminology, acronyms, and hands on activity.

Upon completion, students will be able to:

- utilization of computer hardware and software with an emphasis on terminology, acronyms, and hands on activity

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

CPMT 1311 - Intro to Computer Maintenance

Introduction to the installation, configuration, and maintenance of a microcomputer system.

Upon completion, students will be able to:

- Installation, configuration, and maintenance of a microcomputer system.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

CPMT 1345 - Computer Systems Maintenance

Functions and troubleshooting of operating systems. Development of skills in the use of test equipment and maintenance aids.

Upon completion, students will be able to:

- Functions and troubleshooting of operating systems

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0
Restrictions:

- Course text is the CompTIA Network+ exam prep guide
-

CPMT 1349 - Computer Networking Technology

Networking fundamentals, terminology, hardware, software, and network architecture. Includes local, wide area, and wireless networking installations and operations.

Upon completion, students will be able to:

- Networking fundamentals, terminology, hardware, software, and network architecture

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

CPMT 1391 - Special Topics in Computer Installation and Repair Technology/Technician

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

CPMT 2345 - Computer Systems Troubleshooting

Principles and practices involved in computer system troubleshooting techniques and repair procedures involving advanced diagnostic test programs and the use of specialized equipment.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Prerequisites:

- [CPMT 1345](#) - Computer Systems Maintenance
-

CPMT 2345 - Industry Certification Preparation

Overview of the objectives for industry specific certification exam(s).

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Prerequisites:

- [CPMT 1311](#) - Intro to Computer Maintenance
-

CPMT 2388 - Internship - Computer Installation and Repair Technology/Technician.

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

CPMT 2389 - Internship

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Prerequisites:

- [CPMT 2388](#) - Internship - Computer Installation and Repair Technology/Technician.
-

CPMT 2688 - Internship - Computer Installation and Repair Technology/Technician

A workbased learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Criminal Justice Technology

Overview

Grayson College offers an Associate of Applied Science degree in Criminal Justice and a Certificate in Law Enforcement. A separate offering is available at the Texoma Regional Police Academy, which includes classroom, hands-on activities and physical training to produce graduates ready to enter the workforce. Police Academy graduates earn a Certificate of Completion.

The Criminal Justice AAS degree program is also available in an online format.

Courses that start with CJSA may also be taken for non-credit through the GC Continuing Education division.

Course Requirements

The Associate of Applied Science Degree requires that you have a High School Diploma or an equivalent and that you have satisfied TSI requirements.

Capstone Experience

Graduation with an Associate of Applied Science Degree in Criminal Justice requires successful completion of a Comprehensive Exit Exam.

Local Employers

Grayson County Sheriffs Department, Sherman Police Department, Denison Police Department, Pottsboro Police Department, Howe Police Department

AAS Degree Requirements

Associate of Applied Science - Criminal Justice Technology

Subject	Semester Hours
First Semester	
CRIJ 1301 / CJSA 1322	3
CRIJ 1310 / CJSA 1327	3
EDUC/PSYC 1300	3
ENGL 1301	3
HIST 1301	3
	15
Second Semester	
CRIJ 2314 / CJSA 1342	3
CRIJ 1306 / CJSA 1313	3
CRIJ 1307 / CJSA 1312	3
HIST 1302	3
ENGL 2311	3
	15
Third Semester	
CRIJ 2301 / CJCR 2324	3
CRIJ 2313 / CJCR 1307	3
CRIJ 2323 / CJSA 2300	3
GOVT 2305	3
PSYC 2301 or SOC 1301	3
	15
Fourth Semester	
CRIJ 2328 / CJSA 1359	3
CJSA 2334	3
Creative Arts Core	3
Physical Science Core	3
Elective	3
	15

Certificate Degree Requirements

Law Enforcement Certificate

Subject	Semester Hours
Four CRIJ/CJSA courses	12
CJLE 1506	5
CJLE 1512	5
CJLE 1518	5
CJLE 1524	5
CJLE 1329	3
CJLE 1211	2
	37

Capstone Requirement: All students must pass the Texas Commission on Law Enforcement (TCOLE) Basic Peace Officer Exam.

Students who desire Associate of Applied Science Degree, see degree requirements.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCl 1301 Introduction to Sociology
SOCl 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

CRIJ 1301 - Introduction to Criminal Justice

This course provides a historical and philosophical overview of the American criminal justice system, including the nature, extent, and impact of crime; criminal law; and justice agencies and processes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CRIJ 1306 - Court Systems and Practices

This course is a study of the court system as it applies to the structures, procedures, practices and sources of law in American courts, using federal and Texas statutes and case law.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

CRIJ 1307 - Crime in America

American crime problems in historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes, and prevention of crime

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 1310 - Fundamentals of Criminal Law

This course is the study of criminal law including application of definitions, statutory elements, defenses and penalties using Texas statutes, the Model Penal Code, and case law. The course also analyzes the philosophical and historical development of criminal law and criminal culpability.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 1313 - Juvenile Justice System

Study of juvenile justice process to include specialized juvenile law, role of the juvenile law, role of the juvenile courts, role of police agencies, role of correctional agencies, and theories concerning delinquency.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2301 - Community Resources in Corrections

An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2313 - Correctional Systems and Practices

This course is a survey of institutional and noninstitutional corrections. Emphasis will be placed on the organization and operation of correctional systems; treatment and rehabilitation; populations served; Constitutional issues; and current and future issues.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2314 - Criminal Investigation

Investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences, case and trial preparation.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2323 - Legal Aspects of Law Enforcement

Police authority, responsibilities, constitutional restraints, laws of arrest, search and seizure, and police liability.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

CRIJ 2328 - Police Systems and Practices

This course examines the establishment, role and function of police in a democratic society. It will focus on types of police agencies and their organizational structure, police-community interaction, police ethics, and use of authority.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Cosmetology

Overview

Grayson College's cosmetology programs may be completed in one year or less, and are affordable at community college tuition rates as compared to private training programs.

GC students train in a modern salon environment and earn experience hours with patrons from the community. The Cosmetology Salon is located in the Career and Technology Center on the Main Campus. Training options include:

A complete one-year **Cosmetology Certificate Program** prepares students with professional skills for hair styling, manicures, pedicures, skincare, hair shaping, chemical reformation, principles of hair coloring, and other related courses.

The **Nail Technician Program** prepares students with professional skills in manicuring, nail structure and growth, advance nail techniques, and other related courses. It is a 5 (five) month certificate program, where successful students earn certificates of graduation and then eligible to apply for the State Board Examination. Students who successfully complete the state exam will then become a licensed Nail Technician.

The **Esthetician and Skin Care Specialist Program** prepares students with professional skills for skin-care and other related courses. It is a 9 (nine) month certificate program, where upon completion of the program, students are awarded certificates of graduation and are then eligible to apply for the State Board Examination. Students who successfully complete the state exam will then become a licensed Esthetician & Skin Care Specialist.

The **Cosmetology Instructor Program** prepares licensed cosmetologists with professional skills for teaching. Upon completion of the program students will be awarded certificates of completion and then become eligible to apply for the Instructor State Board Examination. Grayson College offers the training in a 9 (nine) month certificate program, or a 5 (five) month certificate program for cosmetologists with at least one year of work experience in the cosmetology field.

Course Requirements

- The **Cosmetology Certificate Program** requires that you have a High School Diploma or GED, complete 42 semester hours of cosmetology courses and 1500 clock hours. High School students in the 11th grade may enter, but must complete the high school requirements before receiving their certificate.
- The **Nail Technician Program** requires that you have a High School Diploma or GED, be 17 years of age and complete 600 clock hours.
- The **Esthetician and Skin Care Specialists Program** requires that you have a High School Diploma or GED, be 17 years of age and complete 750 hours.
- The **Cosmetology Instructor Program** requires that you have a High School Diploma or GED, be 18 years of age and complete 750 clock hours for the nine-month program and 500 clock hours for the five-month program.

Students should contact the Admissions Office prior to enrollment.

Capstone Experience

- **Certificate in Cosmetology** requires successful completion of CSME 2441 with at least a 70% and mock Cosmetology State Board Exam.
- **Certificate in Nail Technology** requires successful completion of CSME 1443 with at least a 70% and a mock State Board Exam.
- **Certificate in Esthetician and Skin Care** requires successful completion of CSME 2431 with at least a 70% and a mock Esthetician State Board Exam.
- **Certificate in Cosmetology Instructor** requires successful completion of CSME 2445 with at least a 70% and mock Instructor State Board Exam.

Local Employers

J. Toland, Big Apple Beauty Mall, Pro-Cuts, J.C. Penney's, Continental

Certificate Degree Requirements

Cosmetology Certificate

Subject	Semester Hours
First Semester	
CSME 1401	4
CSME 1405	4
CSME 1310	3
CSME 1443	4
	15
Second Semester	
CSME 1453	4
CSME 2401	4
CSME 2343	3
CSME 1451	4
	15
Third Semester	
CSME 1447	4
CSME 2439	4
CSME 2441	4
	12

Upon completion of 42 semester hours of Cosmetology courses and completion of 1500 clock hours, the student will be issued a certificate of completion and become eligible to apply for the Cosmetology State Board Exam.

Capstone Experience: Pass CSME 2441 with at least 70% and a mock Cosmetology State Board Exam.

Cosmetology—Esthetician and Skin Care Specialist

Subject	Semester Hours
---------	----------------

First Semester

CSME 1348	3
CSME 1547	5
CSME 1521	5
	13

Second Semester

CSME 1545	5
CSME 2431	4
	9

Upon completion of 22 semester hours of Esthetician courses and completion of 750 clock hours, the student will be issued a certificate of completion and become eligible to apply for the Esthetician State Board Exam. Capstone Experience: Pass CSME 2431 with at least 70% and a mock Esthetician State Board Exam.

Cosmetology—Nail Technician

Subject	Semester Hours
---------	----------------

First Semester

CSME 1430	4
CSME 1431	4
CSME 1441	4
CSME 1443	4
	16

Upon completion of 16 semester hours of Nail Technician courses and completion of 600 clock hours, the student will be issued a certificate of completion and become eligible to apply for the Nail Technician State Board Exam.

Capstone Experience: Pass CSME 1443 with at least 70% and a mock State Board Exam.

Cosmetology—Instructor**First Semester**

CSME 1535	5
CSME 1434	4
CSME 2414	4
	13

Second Semester

CSME 2415	4
CSME 2444	4
CSME 2445	4
	12

Upon completion of 25 semester hours of Instruction courses and completion of 750 clock hours, the student will be issued a certificate of completion and become eligible to apply for the Instructor State Board Exam. Capstone Experience: Pass CSME 2445 with at least 70% and a mock Instructor State Board Exam.

Cosmetology Instructor

(with at least one year of work experience in the cosmetology field)

Subject	Semester Hours
---------	----------------

First Semester

CSME 1535	5
CSME 1434	4
CSME 2444	4
CSME 2445	4
	17

Upon completion of 17 semester hours of instruction courses and completion of 500 clock hours, the student will be issued a certificate of completion and become eligible to apply for the Instructor State Board Exam

Capstone Experience: Pass CSME 2445 with at least 70% and Mock Instructor State Board Exam.

CSME 1310 - Introduction to Haircutting and Related Theory

Introduction to the theory and practice of hair cutting. Topics include terminology, implements, section haircutting and finishing techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 2.0

CSME 1348 - Principles of Skin Care

An introduction of the theory and practice of skin care.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 2.0

Prerequisites:

- [CSME 1521](#) - Principles of Facial/Esthetics Technology
-

CSME 1401 - Orientation to Cosmetology

An overview of the skills and knowledge necessary for the field of cosmetology. Corequisite: CSME 1405, Fundamentals of Cosmetology

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

Prerequisites:

- [CSME 1405](#) - Fundamentals of Cosmetology
-

CSME 1405 - Fundamentals of Cosmetology

A course in the basic fundamentals of cosmetology. Topics include service preparation, manicure, facial, chemical services, shampoo, haircut, wet styling and comb outs

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1430 - Orientation to Nail Technology

An overview of the fundamental skills and knowledge necessary for the field of nail technology

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

Prerequisites:

- [CSME 1431](#) - Principles of Nail Technology I
-

CSME 1431 - Principles of Nail Technology I

A course in the principles of nail technology. Topics include anatomy, physiology, theory, and skills related to nail technology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

Prerequisites:

- [CSME 1430](#) - Orientation to Nail Technology
-

CSME 1434 - Cosmetology Instructor I

The fundamentals of instructing cosmetology

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 5.0

Lab hours: 4.0

Prerequisites:

- [CSME 1430](#) - Orientation to Nail Technology

Restrictions:

- Valid Texas Cosmetology Commission License
 - High School Diploma or GED
-

CSME 1441 - Principles of Nail Technology II

A continuation of the concepts and principles of nail technology. Topics include advanced instruction in anatomy, physiology, theory, and related skills of nail technology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

Prerequisites:

- [CSME 1430](#) - Orientation to Nail Technology
-

CSME 1443 - Manicuring and Related Theory

Presentation of the theory and practice of nail technology. Topics include terminology, application, and workplace competencies related to nail technology

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1447 - Principles of Skin Care/Facials and Related Theory

In-depth coverage of the theory and practice of skin care, facials and cosmetics.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1447 - Artistry of Hair, Theory and Practice

Instruction in the artistry of hair design. Topics include theory, techniques and application of hair design.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1453 - Chemical Reformation and Related Theory

Presentation of the theory and practice of chemical reformation. Topics include terminology, application and workplace competencies related to chemical reformation.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 1521 - Principles of Facial/Esthetics Technology

An introduction to the principles of facial/esthetic technology. Topics include anatomy, physiology, theory, and related skills of facial/esthetic technology

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 6.0

Lab hours: 5.0

Prerequisites:

- [CSME 1348](#) - Principles of Skin Care
-

CSME 1535 - Orientation to the Instruction of Cosmetology

An overview of the skills and knowledge necessary for the instruction of cosmetology students

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 6.0

Lab hours: 5.0

Restrictions:

- Valid Texas Cosmetology Commission License
 - High School Diploma or GED
-

CSME 1545 - Principles of Facial/Esthetics Technology II

A continuation of the concepts and principles in skin care and other related technologies. Topics include advanced instruction in anatomy, physiology, theory, and related skills of facial/esthetic technology

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 6.0

Lab hours: 5.0

CSME 1547 - Principles of Skin Care/Facials & Related Theory

In-depth coverage of the theory and practice of skin care, facials, and cosmetics

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 6.0
Lab hours: 5.0

CSME 2343 - Salon Development

Exploration of salon development. Topics include professional ethics and goals, salon operations and record keeping. Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lecture hours: 3.0
Lab hours: 4.0

CSME 2401 - The Principles of Hair Coloring and Related Theory

Presentation of the theory and practice of hair color and chemistry. Topics include terminology, application, and workplace competencies related to hair color and chemistry

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lecture hours: 4.0
Lab hours: 6.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 2414 - Cosmetology Instructor II

A continuation of the fundamentals of instructing cosmetology students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lecture hours: 4.0
Lab hours: 5.0

Restrictions:

- Valid Texas Cosmetology Commission License
 - High School Diploma or GED
-

CSME 2415 - Cosmetology Instructor III

Presentation of lesson plan assignments and evaluation techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lecture hours: 4.0
Lab hours: 6.0

Restrictions:

- Valid Texas Cosmetology Commission License
 - High School Diploma or GED
-

CSME 2431 - Principles of Facials/Esthetics Technology III

Demonstrate professional ethics, salon management, and develop client relations and related skills in preparation for the Texas Cosmetology Commission examination.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

CSME 2439 - Advanced Hair Design

Advanced concepts in the theory and practice of hair design.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 2441 - Preparation for Texas Cosmetology Commission Examination

Preparation for the Texas Cosmetology Commission Operator Examination

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

Prerequisites:

- [CSME 1401](#) - Orientation to Cosmetology
-

CSME 2441 - Cosmetology Instructor IV

Advanced concepts of instruction in a cosmetology program. Topics include demonstration, development, and implementation of advanced evaluation and assessment techniques

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 6.0

Restrictions:

- Valid Texas Cosmetology Commission License

- High School Diploma or GED

CSME 2445 - Instructional Theory & Clinic Operations

An overview of the objectives required by the Texas Cosmetology Commission Instructor Examination.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 3.0

Restrictions:

- Valid Texas Cosmetology Commission License
- High School Diploma or GED

Dance

Overview

For students interested in pursuing an Dance degree and transferring to a four-year institution, as a general rule, students should follow the Associate of Arts Degree in General Studies at Grayson College as part of the Arts & Humanities Career Pathway. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	14
Third Semester	

GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
<hr/>	
	15

Fourth Semester

GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
<hr/>	
	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking
- SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

- MATH 1314 College Algebra
- MATH 1316 Plane Trigonometry
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

DANC 1145 - Modern Dance I

Instruction and participation in modern dance technique.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

DANC 1147 - Jazz Dance I.

Instruction and participation in jazz dance technique.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

CADD Technology

Overview

The Computer Aided Drafting and Design (CADD) program offers an exciting and profitable future. Students who enroll in CADD at Grayson College learn the latest drafting software as well as the essentials for a challenging and satisfying career. Students learn basic drafting techniques, 2D drawing, solid modeling, 3D parametric modeling and 3D printing. As technology expands, the need for technical support people also expands. Over 95% of Grayson College's CADD graduates get a job in the drafting field or continue their education at a four-year institution. 3D modeling is rapidly growing in various industries including; medical, art, food, clothing, film, animation, gaming, architecture, manufacturing, industrial design, and interior design. The CADD curriculum at Grayson County College prepares students for jobs in mechanical, electromechanical, architectural, industrial and technical illustration, as well as the previously mentioned areas of interest.

The Computer Aided Drafting and Design program offers an Associate of Applied Science Degree, the Drafting Assistant Certificate and the CADD Technician Certificate.

Course Requirements

The Associate Degree, the CADD Technician Certificate and the Drafting Assistant Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

Graduation with a CADD Certificate or an Associate of Applied Science Degree in Computer Aided Drafting and Design requires successful completion of a Comprehensive Exit Exam.

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
First Semester	
DFTG 1309	3
DFTG 1317	3
SPCH 1311 , 1315 or 1321	3
DFTG 1405	4
Lang, Phil, Culture/Creative Arts Core	3
	16
Second Semester	
DFTG 2331	3
DFTG 1433	4
DFTG 2419	4
Social and Behavioral Science	3
	14
Third Semester	
DFTG 2402	4
DFTG 2417	4
DFTG 1445	4
ENGL 1301	3
	15
Fourth Semester	
DFTG 2440	4
DFTG 2438	4
DFTG 2450	4
MATH 1314	3
	15

Capstone Experience: All students must complete the capstone requirement. Successful completion of a comprehensive exit exam prior to graduation.

Certificate Degree Requirements

Computer Aided Drafting Technician

Subject	Semester Hours
First Semester	
DFTG 1309	3
DFTG 1317	3

DFTG 1405	4
SPCH 1311 or 1321	3
	<hr/> 13

Second Semester

DFTG 2331	3
DFTG 1433	4
DFTG 2419	4
	<hr/> 11

Capstone Experience: All students must complete the capstone requirement. Successful completion of a comprehensive exit exam prior to graduation.

Computer Aided Drafting Assistant

Subject	Semester Hours
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First Semester

DFTG 1309	3
DFTG 1317	3
DFTG 1405	4
	<hr/> 10

Second Semester

DFTG 2419	4
SPCH 1311 or 1321	3
	<hr/> 7

Capstone Experience: All students must complete the capstone requirement. Successful completion of a comprehensive exit exam prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

DFTG 1309 - Basic Computer-Aided Drafting

Upon completion, students will be able to: • Accurately create and modify geometry. • Effectively create and use layers • Understand and efficiently use OSNAP, OTRACK, ORTHO, POLAR options in AutoCAD. • Setup layout sheets • Understand and use appropriate terminology relating to AutoCAD

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

DFTG 1317 - Architectural Drafting – Residential

Upon completion, students will be able to: • Utilize architectural terms, symbols and residential construction materials • Understand Sheet Sets to include, floor plans, site plan, elevations wall sections, schedules, details and foundation plans.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

DFTG 1325 - Blueprint Reading

A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and processes. Includes systems of measurement and industry standards. Also includes interpretation of plans and drawing used by industry to facilitate field application and production.

Upon completion, students will be able to:

- Systems of measurement and industry standards.
- Interpretation of plans and drawing used by industry to facilitate field application and production
- Terminology, symbols, graphic description, and welding processes

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

DFTG 1405 - Technical Drafting

Upon completion, students will be able to: • Understand the principles of drafting to include terminology and fundamentals of drafting standards. • Create accurate orthographic drawings/projections. • Understand projection methods of and create section views and auxiliary views. • Learn "Alphabet of lines". • Read scales of architectural and mechanical drawings.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 4.0

DFTG 1433 - Mechanical Drafting

Upon completion, students will be able to: • Develop Assembly drawings • Develop detail drawings using correct dimensioning/drawing layout techniques. • Create pictorial drawing. • Apply appropriate sectioning and auxiliary standards.

Upon completion, students will be able to:

- Study of mechanical drawings using dimensioning and tolerances, sectioning techniques, orthographic projection and pictorial drawings

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 4.0

Prerequisites:

- [DFTG 1309](#) - Basic Computer-Aided Drafting
 - [DFTG 1405](#) - Technical Drafting
-

DFTG 1445 - Parametric Modeling and Design

Parametric-based design software for 3D design and drafting, using Creo software. Upon completion, students will be able to: • Create solid models using parametric modeling software. • Understand drawing setup and layout in parametric modeling. • Create 2D drawings from 3D Solids.

Upon completion, students will be able to:

- Parametric-based design software for 3D design and drafting.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 4.0

Prerequisites:

- [DFTG 2419](#) - Intermediate Computer-Aided Drafting

Restrictions:

- DFTG 2432 or Consent of Instructor
-

DFTG 2331 - Advanced Technologies in Architectural Design and Drafting

Upon completion, students will be able to: • Develop plan and elevation drawings. • Create a 3D model and create 2d drawings and details from model. • Use architectural techniques to design, assemble, evaluate and render architectural building components.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [DFTG 1309](#) - Basic Computer-Aided Drafting
 - [DFTG 1317](#) - Architectural Drafting – Residential
-

DFTG 2402 - Machine Drafting

Upon completion, students will be able to: • Create Auxiliary views from solid models. • Solve problems with complex integrated parts. • Create complete drawing packages • Utilize different resources and standards for machine design

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 4.0

Prerequisites:

- [DFTG 1433](#) - Mechanical Drafting
 - [DFTG 2419](#) - Intermediate Computer-Aided Drafting
-

DFTG 2417 - Descriptive Geometry

Upon completion, students will be able to: • Understand objects in space. • Project objects in 2 dimensions. • Student to identify, organize, plan and allocate resources. • To provide the student experience in solving problems, visualize with the minds eye, reason and how to acquire and apply new knowledge and skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 1405](#) - Technical Drafting
-

DFTG 2419 - Intermediate Computer-Aided Drafting

Upon completion, students will be able to: • Import and extract data utilizing attributes. • Create Dimensioning Styles and effectively dimension drawings. • Understand and use prototype drawings. • Use external referencing of multiple drawings to construct a composite drawing. • Gain knowledge in basic 3D modeling

Upon completion, students will be able to:

- techniques used in basic computer-aided drafting including the development and use of prototype drawings, construction of pictorial drawings, extracting data and basics of 3D

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 1309](#) - Basic Computer-Aided Drafting
-

DFTG 2438 - Final Project – Advanced Drafting

A drafting course in which students participate in a comprehensive project from conception to conclusion. • Identify Problems • Use industry standard research techniques. • Create complete drawing packages

Upon completion, students will be able to:

- A drafting course in which students participate in a comprehensive project from conception to conclusion.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 2402](#) - Machine Drafting
-

DFTG 2440 - Solid Modeling/Design

A computer-aided modeling course. Development of three-dimensional drawings and models from engineering sketches and orthographic drawings and utilization of three-dimensional models in design work. • Create complex 3D models / drawing packages. • Use industry standard research techniques for assembly part requirements.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [DFTG 2402](#) - Machine Drafting
-

DFTG 2450 - Geometric Dimensioning and Tolerancing

Upon completion, students will be able to: • Apply Tolerance, Feature Control frame, feature of size, datums, form orientation, location, runout and profile controls between various parts. • Calculate appropriate Tolerances

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

Prerequisites:

- [DFTG 2402](#) - Machine Drafting
-

DGTG 2486 - Internship – Drafting and Design Technology/Technician, General.

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Upon completion, students will be able to:

- Apply specialized occupational theory, skills and concepts.

Grade Basis: L

Credit hours: 4.0

Restrictions:

- This is a 20 hour per week internship program
-

Dental Assisting

Overview

There are two options for the Dental Assisting Program at Grayson College: **Dental Assisting Certificate** or the **Associate of Applied Science Degree in Dental Assisting**.

The **Associate of Applied Science Degree in Dental Assisting** is designed to prepare the student to function effectively as an integral member of the dental health care team. The AAS degree consists of nine and on-half months of dental assisting coursework following completion of the pre-requisite courses. Following graduation, the student will be eligible to sit for the exam to become a Certified Dental Assistant in addition to having an Associate of Applied Science degree.

The **Dental Assisting Certificate** is designed to prepare the student to function effectively as an integral member of the dental health care team. The student will participate in classroom instruction, laboratory procedures, and supervised clinical experiences in order to learn the basic functions required of a Dental Assistant.

The Certificate of Dental Assisting is a nine and one-half month program. Upon completion, the graduate is eligible to file application to the State Board of Dental Examiners for registration. The graduate is also eligible to take the examination given by the Dental Assisting National Board (DANB) to become a Certified Dental Assistant (CDA). Becoming a RDA and CDA assures that the graduate is prepared to assist competently in providing quality dental care.

Admission Requirements

1. Application to Grayson College. (Online at www.grayson.edu)
2. [Application to the Dental Assisting Program](#)
3. Passed THEA or COMPASS or TSI waived
4. High School transcript or GED scores
5. Transcript for colleges or universities with cumulative GPA of 2.5 or higher
6. Documentation of required immunizations

Pre-Requisites for the certificate program:

ENGL 1301

PSYC 2301

Deadlines

The Dental Assisting Program accepts one class each fall. For fall admission, the last day to submit application and all required papers is March 30. Final transcripts for courses taken in the spring semester will be accepted until June 1.

****Please note that 24 applicants are accepted each year and applications may be accepted up to August if the class has not been filled.**

Turn in to the College

1. Online application for admission to GC
2. Official transcripts for all colleges previously attended

Turn in to the Dental Assisting Program

1. Unofficial copies of all transcripts
2. Dental Assisting program applications (Circle Dental Assisting)
3. Documentation of required immunizations

Selection and Acceptance Procedure

1. Applications are reviewed for required documentation by the Dental Assisting Admissions Committee. Only those with complete files will be considered for admission.
2. Applicants with incomplete files will be kept for one additional admission period unless additional time is requested in writing.
3. The number of students that can be admitted to the Dental Assisting program is limited by classroom and clinical space and by qualified faculty availability. Therefore, a selection procedure is used to identify candidates who are the most academically prepared.
4. Once all eligible applicants have been evaluated and ranked, students will be admitted from the highest ranking to the lowest, until all spaces are filled. If there are more eligible candidates than there are spaces available, a waiting list will be developed. Should spaces become available prior to the first day of class, applicants will be notified.
5. **Applicants will be notified in writing regarding selection or non-selection within 6 weeks of the March 30 deadline.**

Final Acceptance Requirements (Following notification of acceptance)

When an acceptance letter is received, instructions for the following will be included in the letter.

1. CPR Certification (American Heart Association for Healthcare Providers) must be completed **prior to FIRST DAY OF CLASS**. Must include a face to face skills demonstration.
2. Dental Examination must be completed prior to **FIRST DAY OF CLASS**.
3. Pass a urine drug screen and a criminal background check, as instructed by the program.

Required Immunizations

All students must submit a copy of the following immunizations with a valid stamp or signature, a signed statement from a physician, or lab report indicating serologic immunity. **Please note that some of these immunizations take**

up to six months to complete. Immunizations must be started in time to complete the series before the FIRST DAY OF CLASS. If unable to complete the series before the beginning of class, the applicant is not eligible for admission.

1. TETANUS/DIPHTHERIA/PERTUSSIS (Tdap)
One dose of the Tetanus/diphtheria/pertussis (Tdap) immunization within the last 10 years.
2. MEASLES, MUMPS, RUBELLA (MMR)
(Immunizations or blood test) If born after January 1, 1957 must have proof of two doses of the MMR vaccine administered on or after the 1st birthday and at least 30 days apart – or – proof of serologic confirmation of measles, mumps and rubella immunity – or- serologic evidence of infection.
3. VARICELLA (Chickenpox)(Immunization or blood test)
Series of two Varicella (Chickenpox) vaccines- or –serologic confirmation of immunity to Varicella
4. HEPATITIS B (Immunization or blood test)
Series of three hepatitis B vaccines- or- serologic confirmation of immunity to hepatitis B.
5. INFLUENZA VACCINE
Annual influenza vaccination as recommended by the CDC in the fall of each year.
6. MENINGOCOCCAL VACCINE
All on-campus college students who are under the age of 22 must have the meningococcal vaccination within the previous five years and at least 10 days prior to the first day of class.

Due to compliance with clinical facility requirements and Texas Department of Health recommendations, GC Health Science programs may not waive immunization requirements for any reason. If immunizations are not complete, application to the program must be delayed.

Copies of records from physician's offices, public health department, public schools, other colleges and the military are acceptable. Students should provide a copy of the records. Please do not turn in the originals

Pass, Fail, Graduation Rates

Year	Graduation Rate	Success Rate (RDA Exam)	Job Placement
2014-2015	91%	100%	81%
2015-2016	91%	100%	76%
2016-2017	82%	100%	89%

Application Information

Deadline: March 30

Packet: [Dental Assisting Packet](#)

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
First Semester	
ENGL 1301	3
MATH 1332 or 1342 or 1314	3
SOC 1301	3
HIST 1301	3
	12
Second Semester	
ARTS 1301 , HUMA 1301 , MUSI 1306 or PHIL 1301	3
BIOL 2404	4
PSYC 2301	3
EDUC/PSYC 1300 , SPCH 1311 , 1321 , OR ENGL 2311	3
	13
Third Semester	
DNTA 1245	2

DNTA 1305	3
DNTA 1311	3
DNTA 1315	3
DNTA 1301	3
DNTA 1202	2
<hr/>	
	16
<hr/>	
Fourth Semester	
DNTA 1251	2
DNTA 1347	3
DNTA 1349	3
DNTA 1353	3
DNTA 1460	4
DNTA 2230	2
<hr/>	
	17
<hr/>	
Summer Semester	
DNTA 2260	2
<hr/>	
	2

Certificate Degree Requirements

Certificate of Dental Assisting

Subject	Semester Hours
<hr/>	
Prerequisites	
ENGL 1301	3
PSYC 2301	3
<hr/>	
	6
<hr/>	
First Semester	
DNTA 1245	2
DNTA 1305	3
DNTA 1311	3
DNTA 1315	3
DNTA 1301	3
DNTA 1202	2
<hr/>	
	16
<hr/>	
Second Semester	
DNTA 1251	2
DNTA 1347	3
DNTA 1349	3
DNTA 1353	3
DNTA 1460	4
DNTA 2230	2
<hr/>	
	17
<hr/>	
Third Semester	
DNTA 2260	2
<hr/>	
	2

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

DNTA 1202 - Communication and Behavior in the Dental Office

The study of human interaction and communication in the dental office.
Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent enrollment: DNTA 1245, 1305, 1311, 1315, 1301
- Must be taken in sequence as listed in degree plan.

DNTA 1245 - Preventive Dentistry

The study and prevention of dental diseases and community dental health.
Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Restrictions:

- Concurrent enrollment: DNTA 1202, 1301, 1305, 1311, 1315
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1251 - Dental Office Management

Use of computers and / or manual systems to process dental information and interpret and practice learned dental office management skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Restrictions:

- Concurrent enrollment: DNTA 1347, 1349, 1353, 2230, 1460
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1301 - Dental Materials

Composition, properties, procedures and safety standards related to dental materials.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment: DNTA 1202, 1245, 1305, 1311, 1315
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1305 - Dental Radiology I

Introduction to radiation physics, protection, the operation of radiographic equipment, exposure, processing and mounting of dental radiographs. Specific federal and state safety and standard practices for the classroom and lab settings will be practiced.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment: DNTA 1202, 1245, 1301, 1311, 1315
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1311 - Dental Science

A fundamental study of anatomical systems with emphasis placed on head and neck anatomy. Topics include embryology of the teeth along with basic dental terminology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent enrollment: DNTA 1202, 1245, 1301, 1305, 1315
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1315 - Chairside Assisting

A study of pre-clinical chair side assisting procedures, instrumentation, OSHA and other regulatory agency standards. Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment: DNTA 1202, 1245, 1301, 1305, 1311
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1347 - Advanced Dental Science

An advanced study of anatomical systems, pharmacology, or pathology, and developmental abnormalities. Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent enrollment: DNTA 1251, 1349, 1353, 2230, 1460
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1349 - Dental Radiology in the Clinic

The practical application of exposing, processing and mounting diagnostically acceptable radiographs obtained by utilizing various radiographic techniques. This course will encompass critical evaluation of all procedures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment: DNTA 1251, 1347, 1353, 1460, 2230
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1353 - Dental Assisting Applications

An expanded function of dental assisting techniques with emphasis on four-handed dentistry and utilization of armamentarium for general practice and specialty procedures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

Restrictions:

- Concurrent enrollment: DNTA 1251, 1347, 1349, 1460, 2230
 - Must be taken in sequence as listed in degree plan.
-

DNTA 1460 - Clinical-Dental Assisting / Assistant

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 4.0
Lab hours: 16.0

Restrictions:

- Concurrent enrollment: DNTA 1251, 1347, 1349, 1353, 2230
 - Must be taken in sequence as listed in degree plan.
-

DNTA 2230 - Seminar for the Dental Assistant 1

Analysis of case studies during the clinical phase of practicum I clinical.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0

Restrictions:

- Concurrent Enrollment: 1251, 1347, 1349, 1353, 1460
 - Must be taken in sequence as listed in degree plan.
-

DNTA 2260 - Clinical-Dental Assisting / Assistant

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lab hours: 6.0

Restrictions:

- Must be taken in sequence as listed in degree plan.
-

Theatre

Overview

The Drama/Theatre Associate of Arts degree at Grayson College is designed for transfer to four-year institutions and is part of the **Arts & Humanities Career Pathway**. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Arts degree in Theatre.

AA Degree Requirements

Associate of Arts - Theatre

Subject	Semester Hours
First Semester	
DRAM 1351	3
DRAM 1120	1
DRAM 1121	1
DRAM 1330	3
ENGL1301	3
HIST 1301 or 1302	3
EDUC/PSYC 1300 or Component Area Option 1	
	17
Second Semester	
DRAM 2331 or 1352	3
DRAM 2120	1
SPCH 1311 , 1315 or 1321	3
History Core	3
Mathematics Core	3
DRAM 1120 and/or DRAM 1121	1
	14
Third Semester	
DRAM 1341	3
DRAM 1310 or DRAM 2366	3
GOVT 2305	3
Social & Behavioral Sciences Core	3
Life & Physical Sciences Core	3
Science Lab	1
DRAM 2120	1
	17
Fourth Semester	
Language, Philosophy & Culture Core	3
GOVT 2306	3
Life & Physical Sciences Core	3
Science Lab	1
DRAM 2121	1
Component Area Option 2	1
	12

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

DRAM 1120 - Theatre Practicum

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. To be taken concurrently with DRAM 1330.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- May be repeated one time for credit.
 - To be taken concurrently with DRAM 1330.
-

DRAM 1121 - Theatre Practicum II

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. May be repeated one time for credit.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- May be repeated one time for credit.
 - Lab to be taken concurrently with DRAM 1351 and DRAM 1352
-

DRAM 1310 - Introduction to Theatre

Survey of theater including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. Participation in productions may be required. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

DRAM 1330 - Stagecraft I

Study and application of the methods and components of theatrical production which may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound, and theatrical management. To be taken concurrently with DRAM 1120.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

Restrictions:

- Must also enroll in DRAM 1120
-

DRAM 1341 - Stage Make-Up

Design and execution of makeup for the purpose of developing believable characters. Includes discussion of basic makeup principles and practical experience of makeup application.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

DRAM 1342 - Introduction to Costuming

Principles and techniques of costume design and construction for theatrical productions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

DRAM 1351 - Acting I

An introduction to the fundamental principles and tools of acting as used in auditions, rehearsals, and performances. This may include ensemble performing, character and script analysis, and basic theater terminology. This exploration will emphasize the development of the actor's instrument: voice, body and imagination. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

DRAM 1352 - Acting II

Exploration and further training within the basic principles and tools of acting, including an emphasis on critical analysis of oneself and others. The tools include ensemble performing, character and script analysis, and basic theater terminology. This will continue the exploration of the development of the actor's instrument: voice, body and imagination. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

DRAM 2120 - Theatre Practicum III

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. To be taken concurrently with DRAM 2331. May be repeated one time for credit.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- May be repeated one time for credit.
 - Two semesters of DRAM 1120
-

DRAM 2121 - Theatre Practicum IV

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. To be taken concurrently with DRAM 2336 and DRAM 2351.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- May be repeated one time for credit.
 - Two semesters of DRAM 1121
-

DRAM 2331 - Stagecraft II

Advanced techniques in lighting design, sound design, and special effects and light rigging.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 3.0

Restrictions:

- Must also enroll in DRAM 1120.
-

DRAM 2336 - Voice and Diction

Application of the performer's use of the voice as a creative instrument of effective communication. Encourages an awareness of the need for vocal proficiency and employs techniques designed to improve the performer's speaking abilities. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

DRAM 2351 - Acting III

Development of basic skills and techniques of acting including increased sensory awareness, ensemble performing, character analysis, and script analysis. Emphasis on the mechanics of voice, body, emotion, and analysis as tools for the actor.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 3.0

Prerequisites:

- [DRAM 1351](#) - Acting I
- [DRAM 1352](#) - Acting II

DRAM 2366 - Introduction to Cinema

Survey and analyze cinema including history, film techniques, production procedures, selected motion pictures, and cinema's impact on and reflection of society.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Economics

Overview

For students interested in pursuing an Art degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	14

Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
<hr/>	
	15

Fourth Semester	
GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
<hr/>	
	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

ECON 2301 - Principles of Macroeconomics

An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- sophomore standing or consent of division dean.
-

ECON 2302 - Principles of Microeconomics

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- sophomore standing or consent of division dean.
-

ECON 2311 - Economic Geography

Analytical study of the historical development of particular economic distributions as they relate to social, cultural, political, and physical factors. Includes critical inquiry into the reasons for location of various types of economic activity, production, and marketing

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- sophomore standing or consent of division dean.
- Cross-listed as GEOG 2312. Only one of the cross-listed courses can be taken for credit

Education

Overview

For students interested in pursuing an education degree, Grayson College offers three options as part of the **Public Services Pathway**. Specific options include:

- Associate of Arts in Teaching in Grades 8-12 and other Early Childhood-Grade 12
- Associate of Arts in Teaching in Grades 4-8 and Early Childhood-Grade 12 Special Education
- Associate of Arts in Teaching Early Childhood-Grade 6 Generalists

Courses within the program align with State Board for Educator Certification Pedagogy and Professional Responsibilities Standards. The degree plan satisfies the core requirements for baccalaureate programs at four-year institutions that lead to initial Texas teacher certification.

All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree.

AAT 8-12 Degree Requirements

Associate of Arts in Teaching (AAT) Education Grades 8-12 and Early Childhood-Grade 12

The AAT in Grades 8-12 and other Early Childhood-Grade 12 licensure satisfies the lower-division requirements for bachelor's degree leading to initial Texas teacher certification in all 8-12 and specialized in EC-12 certification areas.

The Grades 8-12 Certification areas are: 8-12 History, 8-12 Social Studies, 8-12 Mathematics, 8-12 Life Sciences, 8-12 Physical Sciences, 8-12 Science, 8-12 English Language Arts & Reading, 8-12 Computer Science, 8-12 Technology Applications, 8-12 Health Science Technology Education, 8-12 Speech, 8-12 Journalism, 6-12 Business Education, 8-12 Marketing Education, 8-12 Mathematics & Physics, 8-12 Agricultural Sciences and Technology, 6-12 Technology Education, 6-12 Languages other than English, 6-12 Family and Consumer Sciences, 8-12 Dance, 8-12 Mathematics & Physical Science & Engineering, 8-12 Human Development and Family Studies, 8-12 Hospitality, Nutrition and Food Sciences, and 8-12 other content area teaching fields/academic disciplines TBA (Chemistry).

The EC-Grade 12 Certification other than Special Education Certificate areas are: EC-12 Music, EC-12 Physical Education, EC-12 Art, EC-12 Health, EC-12 Theatre Arts, EC-12 Technology Applications, EC-12 Languages other than English, and EC-12 other non-special education fields.

Subject	Semester Hours
First Semester	
EDUC 1301	3
ENGL 1301	3
Approved Math Core*	3
HIST 1301	3
EDUC/PSYC 1300 or Component Area Option 1	3
	15

Second Semester

EDUC 2301	3
ENGL 1302	3
Elective in Discipline**	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab	1
HIST 1302	3
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	16

Third Semester

GOVT 2305	3
Elective in Discipline**	3
Elective in Discipline	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab*	1
TECA 1354	3
<hr/>	
	16

Fourth Semester

GOVT 2306	3
Language, Philosophy & Culture Core*	3
Elective in Discipline*	3
Approved Component Option Option 2*	1
Approved Creative Arts Core*	3
<hr/>	
	13

Check with a GC academic advisor and the receiving university/college for recommended courses.

AAT 4-8 Degree Requirements**Associate of Arts in Teaching (AAT) Education 4-8 Certification and Early Childhood-Grade 12**

The Grade 4-8 and Early Childhood-Grade 12 Special Education degree satisfies the lower division requirements for a bachelor's leading to initial Texas teacher certification in all grades 4-8 certification areas and early childhood-12 special education. The Grade 4-8 Certification areas include: Generalist; ESL Generalist; English Language Arts and Reading; English Language Arts, Reading and Social Studies; Mathematics; Science; Mathematics and Science; Social Studies; other content area teaching fields/academic disciplines/interdisciplinary TBA. This degree is for students who want to teach grades EC-Grade 4 and higher. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree.

Subject	Semester Hours
<hr/>	
First Semester	
EDUC 1301	3
ENGL 1301	3
Approved Math Core*	3
HIST 1301	3
EDUC/PSYC 1300 or Component Area Option 1	3
<hr/>	
	15
<hr/>	
Second Semester	
EDUC 2301	3
ENGL 1302	3
MATH 1350**	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab	1

HIST 1302	3
<hr/>	
	16
<hr/>	
Third Semester	
GOVT 2305	3
MATH 1351**	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab*	1
TECA 1354	3
<hr/>	
	13
<hr/>	
Fourth Semester	
GOVT 2306	3
Language, Philosophy & Culture Core*	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab*	1
Approved Component Option Area*	3
Approved Creative Arts Core*	3
<hr/>	
	16

Check with a GC academic advisor and the receiving university/college for recommended courses.

AAT EC-6 Degree Requirements

Associate of Arts in Teaching (AAT) Education Early Childhood-Grade 6 Generalists

The Early Childhood-Grade 6 degree satisfies the lower-division requirements for bachelor's degrees leading to initial Texas teacher certification. EC-6 Certification areas include: Generalist; Bilingual Generalist; ESL Generalist; other content area teaching field/academic disciplines/interdisciplinary TBA. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degrees.

Subject	Semester Hours
<hr/>	
First Semester	
EDUC 1301	3
ENGL 1301	3
Approved Math Core*	3
HIST 1301	3
EDUC/PSYC 1300 or Component Area Option 1	3
<hr/>	
	15
<hr/>	
Second Semester	
EDUC 2301	3
ENGL 1302	3
MATH 1350**	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab	1
HIST 1302	3
<hr/>	
	16
<hr/>	
Third Semester	
GOVT 2305	3
MATH 1351**	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab*	1
TECA 1354	3
<hr/>	
	13
<hr/>	

Fourth Semester

GOVT 2306	3
Language, Philosophy & Culture Core*	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab*	1
Approved Component Option Area*	3
Approved Creative Arts Core*	3
<hr/>	
	16

Check with a GC academic advisor and the receiving university/college for recommended courses.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area. **Approved core selections for AAT are listed below.**

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I

ENGL 1302 Composition II

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 2301 Anatomy & Physiology I

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I

Language, Philosophy, and Culture (3 hours)

ENGL 2351 Mexican-American Literature
HUMA 1301 Introduction to Humanities I
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Introduction to Theater
MUSI 1306 Music Appreciation

American History (6 hours)

HIST 1301 United States History I
HIST 1302 United States History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

COSC 1301 Introduction to Computing
PHED 1164 Introduction to Physical Fitness and Wellness
COSC 1336 Programming Fundamentals I
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business and Professional Communication

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

EDUC 1100 - Learning Framework

A study of the: research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Cross-listed as PSYC 1100. Only one of the cross-listed courses can be taken for credit.
-

EDUC 1300 - Learning Frameworks

A study of the (1) research and theory in the psychology of learning, cognition, and motivation, (2) factors that impact learning, and (3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Cross-listed as PSYC 1300. Only one of the cross-listed courses can be taken for credit.
-

EDUC 1301 - Introduction to the Teaching Profession

An enriched, integrated pre-service course and content experience that: (1) provides active recruitment and institutional support of students interested in a teaching career, especially in high need fields; (2) provides students with opportunities to participate in early field observations at all levels of P-12 schools with varied and diverse student populations; (3) provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introduction to and analysis of the culture of schooling and classrooms; (4) course content should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Course includes 16 hours of field experience which must be in P-12 classrooms in public schools.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Students must have met TSI Reading & Writing requirements prior to enrolling
-

EDUC 2301 - Introduction to Special Populations

An enriched, integrated pre-service course and content experience that: (1) provides an overview of schooling and classrooms from the perspectives of language, gender, socioeconomic status, ethnic and academic diversity, and equity with an emphasis on factors that facilitate learning; (2) provides students with opportunities to participate in early field observations of P-12 special populations; (3) course content should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Sixteen hours of field experience which must be with special populations in P-12 classrooms in public schools.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Computer Technology

EECT 1303 - Intro to Telecommunications

Study of new range of worldwide information movements using the latest advances in telecommunication systems, computers, applications, and equipment. How telecommunications and the computer will link and interconnect other information processing segments

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 3.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

GC offers an **Associate of Applied Science degree in Computer Maintenance and Networking** which is the culmination of the certificates along with the core curriculum to produce a well-rounded employee. The Grayson College training offers the following Certificates of Completion options:

Computer Network Administration prepares the student to pass the Microsoft Certified System Administrator exams. This program covers basic networking fundamentals, LINUX, Microsoft Operating Systems, and server administration. Students will also be qualified to take the A+ and Network+ exams.

Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
First Semester	
ENGL 1301	3
CPMT 1303	3
Elective*	3
ITNW 1325	3
CPMT 1311	3
	15
Second Semester	
ITNW 1354	3
CPMT 2350	3
CPMT 1345	3
Elective*	3
Mathematics/Life & Physical Science Core	3
	15
Third Semester	
ITSY 1300	3
ITNW 1351	3
Elective*	3
Language, Philosophy, Culture/Creative Arts	3
	15
Fourth Semester	
CPMT 2345	3
CPMT 1349	3
Elective*	3
ITSC 1316	3
Social & Behavioral Science Core	3
	15

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration	
Subject	Semester Hours
First Semester	
ITSY 1300	3
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
	12

Second Semester

ITSC 2339	3
CPMT 2350	3
CPMT 1345	3
ITSC 1416	4
<hr/>	
	13

Third Semester

ITNW 1354	3
ITNW 1308	3
<hr/>	
	6

Fourth Semester

CPMT 1349	3
CPMT 2345	3
ITNW 2305	3
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	9

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
----------------	-----------------------

First Semester

EECT 1407	4
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
<hr/>	
	13

Second Semester

CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
ITSC 1416	4
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	13

Third Semester

ITNW 1354	3
ITSY 1300	3
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	6

Fourth Semester

CPMT 1349	3
ITNW 2305	3
CPMT 2345	3
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Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs**Computer Support Technician**

Subject	Semester Hours
----------------	-----------------------

First Semester

CPMT 1303	3
CPMT 1311	3

ITNW 1325	3
<hr/>	
	9

Second Semester

CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
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	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCl 1301 Introduction to Sociology
SOCl 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

EECT 1407 - Convergent Technologies

A study of telecommunications convergency technologies including telephone, LAN, WAN, wireless, voice, video, and internet protocol.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 3.0

Electrical Technology

Overview

Electricians are needed to install and maintain electrical power, communications, lighting, and control systems in homes, businesses, and factories. They work indoors and outdoors, in nearly every type of facility. Almost all electricians work full time, which may include evenings and weekends. Although the work is not as dangerous as other construction occupations, potential injuries include electrical shocks and burns, cuts, and falls.

According to the Occupational Outlook Handbook, most electricians learn through an apprenticeship, and many start out by attending a technical school. Most states require electricians to be licensed. The median annual wage for electricians was \$49,840 in May 2012.

Employment of electricians is projected to grow 20 percent from 2012 to 2022, faster than the average for all occupations. As homes and businesses require more wiring, electricians will be needed to install the necessary components. Electricians with the widest variety of skills should have the best job opportunities.

Grayson College's Electrician Technology program is located on the south campus in Van Alstyne and offers three levels of certificates leading to an AAS degree.

Course Requirements

The Associate of Applied Science Degree and the Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a Comprehensive Exam.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	2
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1329	3
ELPT 2164	1
ELTN 1343	3
	13
Third Semester	
ENGL 1301	3
ELPT 1341	3
ELPT 2343	3
ELPT 1357	3
IEIR 1312	3
ELPT 2319	3
	18
Fourth Semester	
ITSC 1309	3

MATH 1332	3
ELPT 2165	1
Social & Behavioral Science Core	3
Lang, Phil, Culture/Creative Arts Core	3
ENGL 2311	3
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	16

Certificate Degree Requirements

Certificate – Basic Electrical Technology ETP-1

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	2
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
<hr/>	
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1329	3
<hr/>	
	9

Certificate – Maintenance Electrician ETP-2

Subject	Semester Hours
First Semester	
CNBT 1300	2
ELPT 1215	3
ELPT 1311	3
<hr/>	
	8
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1341	3
<hr/>	
	9
Third Semester	
ELPT 1357	3
ELPT 2319	3
ELPT 2350	3
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	9

Certificate – Advanced Electrical Technology ETP-3

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	3
ELPT 1311	3

ELTN 1391	3
CNBT 1300	3
<hr/>	
	13
<hr/>	
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT1329	3
ELPT 2164	1
ELTN 1343	3
<hr/>	
	13
<hr/>	
Third Semester	
ELPT 2343	3
ELPT 1341	3
IEIR 1312	3
ELPT 1357	3
ELPT 2319	3
ELPT 2165	1
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	16

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I
- BIOL 1307/1107 Biology for Science Majors II
- BIOL 1308/1108 Biology for Non-Science Majors I
- BIOL 1309/1109 Biology for Non-Science Majors II
- BIOL 1414 Introduction to Biotechnology I
- BIOL 2301/2101 Anatomy & Physiology I
- BIOL 2302/2102 Anatomy & Physiology II
- BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
- BIOL 2320/2120 Microbiology for Non-Science Majors
- BIOL 2321/2121 Microbiology for Science Majors
- CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
- CHEM 1311/1111 General Chemistry I
- CHEM 1312/1112 General Chemistry II
- GEOL 1301/1101 Earth Sciences for Non-Science Majors I
- GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ELPT 1215 - Electrical Calculations I.

This is an introduction to mathematical applications utilized to solve problems in the electrical field. Topics include fractions, decimals, percentages, simple equations, ratio and proportion, unit conversions, and applied geometry. Electrical calculations to solve DC and AC electrical circuits are included

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

ELPT 1221 - Introduction to Electrical Safety and Tools

This course covers safety rules and regulations. Includes the selection, inspection, use and maintenance of common tools for electricians.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

Advanced Manufacturing

Overview

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303	3
EDUC 1300	3
Social Behavioral Sciences Core	3
MATH 1332	3
	12
Second Semester	
MCHN 1320	3
ELPT 1311	3
MCHN 1302	3
ENGL 2311	3
Lang, Phil, Culture/Arts Core	3
	15
Third Semester	
MCHN 1371	3
QCTC 1343	3
AS Life & Phys Science Core	3
AS Life & Phys Science Core Lab	1
MCHN 1438	4
	14
Fourth Semester	
ELPT 2319	3
MCHN 1326	3
INMT 1391	3
	9

Fifth Semester (May Mini & Summer)

ELPT 1441	4
INMT 2688	6
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	10

Notes and Content

Notes and Content

Certificate Degree Requirements**Advanced Manufacturing Technician Certificate**

Subject	Semester Hours
First Semester	
TECH 1303 Technical Calculations	3
<hr/>	
	3
Second Semester	
MCHN 1320 Prec Tools & Measure	3
<hr/>	
	3
Third Semester	
ELPT 1311 Basic Electrical Theory	3
MCHN 1302 Print Rdng for Mchn	3
<hr/>	
	6
Fourth Semester	
MCHN 1371 MSSC Local Needs	3
QCTC 1343 Quality Assurance	3
<hr/>	
	6
Fifth Semester	
MCHN 1438 Basic Mch Shop I	4
<hr/>	
	4
Sixth Semester	
ELPT 2319 PLC'S I	3
MCHN 1326 CAM	3
<hr/>	
	6
Seventh Semester (May Mini & Summer)	
INMT 1391 Spec Top in Mfg Technology	3
ELPT 1441 Motor Controls	4
INMT 2688 Internship Mfg Tech	6
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	13

Notes and Content

Notes and Content

ELPT 1311 - Fundamentals of Electricity

Basic theory and practice of electrical circuits. Includes calculations as applied to alternating and direct current.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L**Credit hours:** 3.0**Lecture hours:** 2.0**Lab hours:** 2.0

Electrical Technology

Overview

Electricians are needed to install and maintain electrical power, communications, lighting, and control systems in homes, businesses, and factories. They work indoors and outdoors, in nearly every type of facility. Almost all electricians work full time, which may include evenings and weekends. Although the work is not as dangerous as other construction occupations, potential injuries include electrical shocks and burns, cuts, and falls.

According to the Occupational Outlook Handbook, most electricians learn through an apprenticeship, and many start out by attending a technical school. Most states require electricians to be licensed. The median annual wage for electricians was \$49,840 in May 2012.

Employment of electricians is projected to grow 20 percent from 2012 to 2022, faster than the average for all occupations. As homes and businesses require more wiring, electricians will be needed to install the necessary components. Electricians with the widest variety of skills should have the best job opportunities.

Grayson College's Electrician Technology program is located on the south campus in Van Alstyne and offers three levels of certificates leading to an AAS degree.

Course Requirements

The Associate of Applied Science Degree and the Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a Comprehensive Exam.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	2
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1329	3
ELPT 2164	1
ELTN 1343	3
	13
Third Semester	
ENGL 1301	3
ELPT 1341	3
ELPT 2343	3
ELPT 1357	3
IEIR 1312	3
ELPT 2319	3
	18
Fourth Semester	

ITSC 1309	3
MATH 1332	3
ELPT 2165	1
Social & Behavioral Science Core	3
Lang, Phil, Culture/Creative Arts Core	3
ENGL 2311	3
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	16

Certificate Degree Requirements

Certificate – Basic Electrical Technology ETP-1

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	2
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
<hr/>	
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1329	3
<hr/>	
	9

Certificate – Maintenance Electrician ETP-2

Subject	Semester Hours
First Semester	
CNBT 1300	2
ELPT 1215	3
ELPT 1311	3
<hr/>	
	8
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1341	3
<hr/>	
	9
Third Semester	
ELPT 1357	3
ELPT 2319	3
ELPT 2350	3
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	9

Certificate – Advanced Electrical Technology ETP-3

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	3

ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
<hr/>	
	13
<hr/>	
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT1329	3
ELPT 2164	1
ELTN 1343	3
<hr/>	
	13
<hr/>	
Third Semester	
ELPT 2343	3
ELPT 1341	3
IEIR 1312	3
ELPT 1357	3
ELPT 2319	3
ELPT 2165	1
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Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ELPT 1311 - Basic Electrical Theory

This course covers the basic theory and practice of electrical circuits. It includes calculations as applied to alternating and direct current, and covers electrical terminology, circuit analysis and mathematical formulas as applied to direct and alternating current circuits.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 3.0

Lab hours: 2.0

ELPT 1325 - National Electric Code I

This is an introductory study of the National Electric Code (NEC) for those employed in the field requiring knowledge of the Code. Emphasis will be on wiring design, protection, methods, and materials; and equipment for general use, and basic calculations.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

ELPT 1329 - Residential Wiring

Wiring methods for single family and multi-family dwellings. Includes load calculations, service entrance sizing, proper grounding techniques, and associated safety procedures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

ELPT 1341 - Motor Control

Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wiring, and schematic diagram interpretations. Identify practical applications of jogging and plugging; describe the types of motor braking and their operating principles; explain different starting methods for large motors; and demonstrate proper troubleshooting methods on circuits using wiring and schematic diagrams

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

ELPT 1357 - Industrial Wiring

This course covers wiring methods used for industrial installations. It includes motor circuits, raceway and bus way installations, proper grounding techniques, and associated safety procedures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Advanced Manufacturing

Overview

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303	3
EDUC 1300	3
Social Behavioral Sciences Core	3
MATH 1332	3
	12
Second Semester	
MCHN 1320	3
ELPT 1311	3
MCHN 1302	3
ENGL 2311	3
Lang, Phil, Culture/Arts Core	3
	15
Third Semester	
MCHN 1371	3
QCTC 1343	3
AS Life & Phys Science Core	3
AS Life & Phys Science Core Lab	1
MCHN 1438	4
	14
Fourth Semester	
ELPT 2319	3
MCHN 1326	3
INMT 1391	3
	9
Fifth Semester (May Mini & Summer)	
ELPT 1441	4
INMT 2688	6
	10

Notes and Content

Notes and Content

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
First Semester	
TECH 1303 Technical Calculations	3
	3
Second Semester	

MCHN 1320 Prec Tools & Measure	3
<hr/>	
3	
<hr/>	
Third Semester	
ELPT 1311 Basic Electrical Theory	3
MCHN 1302 Print Rdng for Mchn	3
<hr/>	
6	
<hr/>	
Fourth Semester	
MCHN 1371 MSSC Local Needs	3
QCTC 1343 Quality Assurance	3
<hr/>	
6	
<hr/>	
Fifth Semester	
MCHN 1438 Basic Mch Shop I	4
<hr/>	
4	
<hr/>	
Sixth Semester	
ELPT 2319 PLC'S I	3
MCHN 1326 CAM	3
<hr/>	
6	
<hr/>	
Seventh Semester (May Mini & Summer)	
INMT 1391 Spec Top in Mfg Technology	3
ELPT 1441 Motor Controls	4
INMT 2688 Internship Mfg Tech	6
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13	

Notes and Content

Notes and Content

ELPT 1441 - Motor Control

Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wiring, and schematic diagram interpretations.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Electrical Technology

Overview

Electricians are needed to install and maintain electrical power, communications, lighting, and control systems in homes, businesses, and factories. They work indoors and outdoors, in nearly every type of facility. Almost all electricians work full time, which may include evenings and weekends. Although the work is not as dangerous as other construction occupations, potential injuries include electrical shocks and burns, cuts, and falls.

According to the Occupational Outlook Handbook, most electricians learn through an apprenticeship, and many start out by attending a technical school. Most states require electricians to be licensed. The median annual wage for electricians was \$49,840 in May 2012.

Employment of electricians is projected to grow 20 percent from 2012 to 2022, faster than the average for all occupations. As homes and businesses require more wiring, electricians will be needed to install the necessary components. Electricians with the widest variety of skills should have the best job opportunities.

Grayson College's Electrician Technology program is located on the south campus in Van Alstyne and offers three levels of certificates leading to an AAS degree.

Course Requirements

The Associate of Applied Science Degree and the Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a Comprehensive Exam.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	2
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1329	3
ELPT 2164	1
ELTN 1343	3
	13
Third Semester	
ENGL 1301	3
ELPT 1341	3
ELPT 2343	3
ELPT 1357	3
IEIR 1312	3
ELPT 2319	3
	18
Fourth Semester	
ITSC 1309	3
MATH 1332	3
ELPT 2165	1
Social & Behavioral Science Core	3
Lang, Phil, Culture/Creative Arts Core	3
ENGL 2311	3
	16

Certificate Degree Requirements

Certificate – Basic Electrical Technology ETP-1

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	2

ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
<hr/>	
	13

Second Semester

ELPT 2305	3
ELPT 1325	3
ELPT 1329	3
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	9

Certificate – Maintenance Electrician ETP-2

Subject	Semester Hours
First Semester	
CNBT 1300	2
ELPT 1215	3
ELPT 1311	3
<hr/>	
	8
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1341	3
<hr/>	
	9
Third Semester	
ELPT 1357	3
ELPT 2319	3
ELPT 2350	3
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	9

Certificate – Advanced Electrical Technology ETP-3

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	3
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
<hr/>	
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT1329	3
ELPT 2164	1
ELTN 1343	3
<hr/>	
	13
Third Semester	
ELPT 2343	3
ELPT 1341	3
IEIR 1312	3
ELPT 1357	3

ELPT 2319	3
ELPT 2165	1
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	16

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II

PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCl 1301 Introduction to Sociology
SOCl 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ELPT 2164 - Practicum Electrical & Power Transmission

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Restrictions:

- Requires 8 lab hours

ELPT 2164 - Practicum-Electrical and Power Transmission

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Restrictions:

- Requires 8 lab hours

ELPT 2305 - Motors and Transformers.

This course focuses on the operation of single- and three-phase motors and transformers. It includes transformer banking, power factor correction, and protective devices. Also included are lessons on three-phase power concepts, transformer and motor connections, transformer and motor metering, and transformer and motor troubleshooting theory

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Prerequisites:

- [ELPT 1311](#) - Basic Electrical Theory

Advanced Manufacturing

Overview

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303	3
EDUC 1300	3
Social Behavioral Sciences Core	3
MATH 1332	3
	12
Second Semester	
MCHN 1320	3
ELPT 1311	3
MCHN 1302	3
ENGL 2311	3
Lang, Phil, Culture/Arts Core	3
	15
Third Semester	
MCHN 1371	3
QCTC 1343	3
AS Life & Phys Science Core	3
AS Life & Phys Science Core Lab	1
MCHN 1438	4
	14
Fourth Semester	
ELPT 2319	3

MCHN 1326	3
INMT 1391	3
	9

Fifth Semester (May Mini & Summer)

ELPT 1441	4
INMT 2688	6
	10

Notes and Content

Notes and Content

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
First Semester	
TECH 1303 Technical Calculations	3
	3
Second Semester	
MCHN 1320 Prec Tools & Measure	3
	3
Third Semester	
ELPT 1311 Basic Electrical Theory	3
MCHN 1302 Print Rdng for Mchn	3
	6
Fourth Semester	
MCHN 1371 MSSC Local Needs	3
QCTC 1343 Quality Assurance	3
	6
Fifth Semester	
MCHN 1438 Basic Mch Shop I	4
	4
Sixth Semester	
ELPT 2319 PLC'S I	3
MCHN 1326 CAM	3
	6
Seventh Semester (May Mini & Summer)	
INMT 1391 Spec Top in Mfg Technology	3
ELPT 1441 Motor Controls	4
INMT 2688 Internship Mfg Tech	6
	13

Notes and Content

Notes and Content

ELPT 2319 - Programmable Logic Controllers I

Fundamental concepts of programmable logic controllers, principles of operation and numbering systems as applied to electrical controls.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 2.0

Electrical Technology

Overview

Electricians are needed to install and maintain electrical power, communications, lighting, and control systems in homes, businesses, and factories. They work indoors and outdoors, in nearly every type of facility. Almost all electricians work full time, which may include evenings and weekends. Although the work is not as dangerous as other construction occupations, potential injuries include electrical shocks and burns, cuts, and falls.

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Course Requirements

The Associate of Applied Science Degree and the Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a Comprehensive Exam.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	2
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1329	3
ELPT 2164	1
ELTN 1343	3
	13
Third Semester	
ENGL 1301	3
ELPT 1341	3
ELPT 2343	3
ELPT 1357	3
IEIR 1312	3

ELPT 2319	3
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	18

Fourth Semester

ITSC 1309	3
MATH 1332	3
ELPT 2165	1
Social & Behavioral Science Core	3
Lang, Phil, Culture/Creative Arts Core	3
ENGL 2311	3
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	16

Certificate Degree Requirements

Certificate – Basic Electrical Technology ETP-1

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	2
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
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	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1329	3
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	9

Certificate – Maintenance Electrician ETP-2

Subject	Semester Hours
First Semester	
CNBT 1300	2
ELPT 1215	3
ELPT 1311	3
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	8
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1341	3
<hr/>	
	9
Third Semester	
ELPT 1357	3
ELPT 2319	3
ELPT 2350	3
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	9

Certificate – Advanced Electrical Technology ETP-3

Subject	Semester Hours
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First Semester

ELPT 1221	2
ELPT 1215	3
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
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	13

Second Semester

ELPT 2305	3
ELPT 1325	3
ELPT1329	3
ELPT 2164	1
ELTN 1343	3
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	13

Third Semester

ELPT 2343	3
ELPT 1341	3
IEIR 1312	3
ELPT 1357	3
ELPT 2319	3
ELPT 2165	1
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	16

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

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MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ELPT 2319 - Programmable Logic Controllers I

Fundamental concepts of programmable logic controllers, principles of operation, and numbering systems as applied to electrical controls.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

ELPT 2343 - Electrical Systems Design

This is a course in electrical design of commercial and/or industrial projects, including building layout, types of equipment, placement, sizing of electrical equipment, and all electrical calculations according to the requirements of the National Electrical Code (NEC).

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Prerequisite: ELPT 2325 or approval of department chair.
-

ELPT 2350 - Maintenance Electrician Exam Review

General requirements and fundamentals of electrical maintenance with emphasis on wiring methods and electrical theory. Determine clearance of electrical installations; analyze overcurrent protection and determine the proper overcurrent protection required for electrical installations; perform voltage drop calculations; determine motor loads; and troubleshoot, replace, and explain installation procedures of lighting fixtures including fluorescent lamps and ballasts.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

ELPT 2364 - Practicum - Electrical and Power Transmission

This course provides practical, general workplace training supported by an individualized learning plan developed by the employer, College, and student. The plan relates the workplace training and experiences to the students general and technical course of study. The guided external experiences may be paid or unpaid. The course may be repeated if topics and learning outcomes vary.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Restrictions:

- Prerequisite: Approval of department chair.
 - 24 Hours of Lab Required
-

ELTN 1343 - Electrical Troubleshooting

Maintenance, operation, troubleshooting, and repair of circuits of various residential, commercial, and industrial electrical systems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

ELTN 1391 - Special Topics in Electrician and Power Transmission

Topics address recently identified current events, skills, knowledge, and-or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. The course was designed to be repeated multiple times to improve student proficiency.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Emergency Medical Services-EMT/Paramedicine

Overview

The Emergency Medical Service programs at Grayson College offer three levels of EMS education: the EMT Certificate of Completion, the paramedic Certificate of Completion and the Associate of Applied Science in Paramedicine.

At each program level, students gain additional knowledge and skills to enable them to function in clinical and field settings with physicians, nurses, firefighters and other healthcare professionals. In the classroom, students learn about anatomy and physiology, the pathophysiology of diseases, traumatic injuries, pharmacology and cardiac care of all age groups. Students acquire practical and field skills through laboratory practice, simulation, clinical experience in hospitals and experience with ambulance services. EMS personnel must be at least 18 years of age and have a high school diploma or GED.

Successful completion of an EMS Program will prepare the student to sit for Texas licensure and for the National Registry Certification exam to work as an Emergency Medical Technician or Paramedic.

Core Performance Standards/Physical and Mental Capabilities

EMS personnel must have the ability to communicate verbally via telephone and radio equipment, ability to lift, carry and balance up to 125 pounds (250 pounds with assistance); ability to interpret written, oral and diagnostic instructions; ability to use good judgment and remain calm in high-stress situations; ability to work effectively in an environment with loud noises and flashing lights; ability to function efficiently throughout an entire work shift; ability to calculate weight and volume ratios and read small print, under life threatening time constraints; ability to read and understand English language manuals and road maps; ability to accurately discern street signs and address numbers; ability to interview patient, family members and bystanders; ability to document, in writing, all relevant information in prescribed format in light of legal ramifications of such; ability to converse in English with coworkers and hospital staff as to status of patients. EMS personnel should possess good manual dexterity, with ability to perform all tasks related to highest quality patient care. Ability to bend, stoop and crawl on uneven terrain and ability to withstand varied environmental conditions such as extreme heat, cold and moisture is vital. The ability to work in low light, confined spaces and other dangerous environments is required.

Certificate Degree Options

Emergency Medical Technician – Certificate of Completion

The EMT must demonstrate competency in handling emergencies utilizing all Basic Life Support equipment and skills in accordance with all behavioral objectives in the Department of Transportation/ EMT Basic curriculum. The course includes classroom, laboratory, hospital and field instruction which shall include supervised experiences in the emergency department and with a licensed EMS provider and other appropriate settings. This course can be completed in one semester.

Paramedic – Certificate of Completion

The minimum curriculum includes all content required by the current national paramedic education standards and competencies as defined by the Department of Transportation which address the following areas: roles and responsibilities of the paramedic; well-being of the paramedic; illness and injury prevention; medical/ legal issues; ethics; general principles of pathophysiology; pharmacology; venous access and medication administration; therapeutic communications; life span development; patient assessment; airway management and ventilation, including endotracheal intubation; and trauma. The course includes classroom, laboratory, hospital and field instruction which shall include supervised experiences in the emergency department, critical care areas, and with a licensed EMS provider and other appropriate settings.

Paramedic – Associate of Applied Science

The Associate of Applied Science degree is identical to the Certificate of Completion for the Paramedic, but also includes the general education coursework required to be awarded the 60 hour Associate of Applied Science degree in Paramedicine.

Admissions Requirements

Detailed information about the programs is provided in Application Packets, available by sending an email request to hixch@grayson.edu. The applicant should request the EMT application or Paramedic application. Completion of this packet is required for all applicants.

General Admission Guidelines

Students applying to the EMS program must first apply for admission to Grayson College and submit all required documentation to the Admissions Offices. See GC Catalog "General Academic Policies, Admissions" for more information. Admission to the college does not guarantee admission to the EMS programs. In addition to the admission requirements of Grayson College, the applicant must be 18 years of age and possess a high school diploma or GED 180 days post course completion.

To be considered for acceptance into the EMS program, applicants must submit application to the EMS Education Program, with required documentation attached, by the deadline posted in the EMS Application Packet. Applications will not be accepted until all required documentation is attached. Incomplete applications will be returned to the student without consideration.

Application Documentation Required of All EMS Applicants:

1. **Completed application for admission to EMT or Paramedic program** (available by emailing hixch@grayson.edu)
2. **Completed verification statement** (in packet)
3. **Pre-Entrance Physical Exam and Health Statement** completed by approved medical professional
4. **Copy of transcripts** from all previously attended colleges or universities. Turn in to the GC Admissions Office official transcripts from all colleges previously attended. Turn in to the EMS program unofficial transcripts.
5. **Documentation of immunization*** as follows:
 - Tetanus/Diphtheria/Pertussis (Tdap) - One dose of the tetanus/diphtheria/pertussis (Tdap) immunization within the last 10 years
 - Measles, Mumps, Rubella (MMR) (Immunization or blood test proving immunity) - If born after Jan. 1, 1957, must have proof of two doses of the MMR vaccine administered on or after the first (1st) birthday and at least 30 days apart or proof of serologic immunity
 - Varicella (Chickenpox) (Immunization or blood test proving immunity) - Series of two Varicella vaccines at least 30 days apart or proof of serologic immunity
 - Hepatitis B (Immunization or blood test proving immunity) - Series of three Hepatitis B vaccines or proof of serologic immunity
 - Influenza Vaccine - Annual influenza immunization as recommended by the CDD in the fall of each year.

Due to compliance with clinical facility requirements and the Texas Department of Health recommendations, GC Health Science programs may not waive immunization requirements for any reason. If immunizations are not complete, application to the program must be delayed.

Copies of records from physician's offices, public health department, public schools, other colleges and the military are acceptable. Students should provide a copy of the records. Please do not turn in the originals.

Additional Application Documentation Required for Paramedic Candidates:

1. Copy of college or university transcript showing completed, EMT Basic course work. If not completed at a college or university, attach copy of Course Completion Certificate showing classroom, clinical, and ambulance hours.
2. Copy of current EMT certificate or license issued by one of the following: State of Texas or National Registry of EMTs.
3. Copy of current CPR for Healthcare Provider card issued by the American Heart Association.
4. Documentation of Fisdap Paramedic Entrance Exam Scores.

Note: It is the responsibility of the student to maintain EMT and CPR for Healthcare Provider certifications throughout the paramedic course to remain eligible for clinical practice.

Selection and Acceptance Procedure

EMT Certificate of Completion Selection and Acceptance:

Registration in EMT courses is by permission only. Once all EMT admission requirements have been submitted to the EMS Department, an email will be sent giving permission to enroll in EMT courses. Applications for Emergency Medical Technician courses, including dual credit courses received before the last date of registration for the desired semester will be reviewed for the required documentation listed above. Applicants who submit all required documents before the last date of registration for the semester will be granted permission to register. Applications will not be accepted after the last date of registration.

Paramedic Selection and Acceptance:

Applications for Paramedic courses received by the published deadline will be reviewed for the required documentation listed above by the EMS Admissions Committee during the five days immediately following the deadline. Only complete applications will be considered for selection.

Applications will be prioritized for selection to the Paramedic Course Waiting List using the applicant's score on the Fisdap entrance exam.

Applicants with the highest score will be selected for the waiting list first. In the case where applicants having equal scores must be chosen for limited space availability, the selection will be made by the EMS Admissions Committee and/or Program Director.

Applicants will be notified regarding selection or non-selection by telephone or email, or both, at least five (5) days prior to the scheduled orientation.

Should more applications be received than seats available, the waiting list will be maintained until the first class day. Any remaining applications will be destroyed.

Final Acceptance Requirements

1. Attend a scheduled mandatory orientation day on campus.
 - EMT orientation is scheduled for the first class day
 - Paramedic orientation is published in the Paramedic Application Packet
2. Pass a urine drug screen (at the student's expense and completed as scheduled through a GC approved company).
3. Pass a criminal background check (at the student's expense and completed as scheduled through a GC approved company).
4. Documentation of clinical readiness (Completion of immunizations and required medical exam).

Eligibility for Certification or Licensure

Eligibility for Certification with the National Registry of Emergency Medical Technicians (NREMT)

The National Registry does not issue a permit to work or license to practice, and does not warrant job performance of applicants and EMS professionals.

- No individual is eligible to apply for certification or recertification unless compliance with all NREMT rules and standards are demonstrated.
- The individual must truthfully complete and submit an application in the form provided by the NREMT and shall provide all additional information as requested.
- The individual must at all times be eligible for and not barred from practice as an Emergency Medical Technician under the laws of any state EMS licensing or authorizing agency.
- An individual convicted of a felony or any other crime directly related to public health or the provision of emergency medical service, including DUI, will be reviewed for eligibility for certification and recertification under policies outlined in the NREMT's Felony Policy.
- The NREMT reserves the right to withhold or revoke certification from an individual who has failed to pay for services rendered.

Eligibility for Certification with the Texas Department of State Health Services

All initial EMS applicants are required to submit their fingerprints through the Fingerprint Applicant Services of Texas (FAST) for Texas/FBI criminal history check. A person shall be disqualified from eligibility to acquire an EMS certification if the applicant is convicted of or placed on deferred adjudication community supervision or deferred disposition for an offense listed in Code of Criminal Procedure, Article 42.12, Sections 3g(a)(1)(A) through (H) as follows: (1) murder; (2) capital murder; (3) indecency with a child; (4) aggravated kidnapping; (5) aggravated sexual assault; (6) aggravated robbery; (7) substance abuse offenses, as described in Health and Safety Code, Chapter 481, for which punishment is increased under: (a) Health and Safety Code, §481.140, regarding the use of a child in the commission of an offense; or (b) Health and Safety Code, §481.134(c), (d), (e) or (f), regarding an offense committed within a drug free zone, if it is shown that the defendant has been previously convicted of an offense for which punishment was increased under one of those subsections; (8) sexual assault; (9) an offense, other than an offense committed on or after September 1, 2009, for which the person is subject to register as a sex offender under Code of Criminal Procedure, Chapter 62.

Transfer of EMT Coursework

Students who completed EMT coursework at a college or university other than GC must submit official transcripts from each college or university previously attended to the GC Office of Admissions and Records, and submit a copy (official or unofficial) of the transcript attached to the EMS Admissions Application. EMT coursework completed via continuing education or a training site other than a college or university must be approved by the Director of EMS Education for credit award. Minimum documentation required for the approval process includes a copy of the initial course completion certificate showing classroom, clinical, and ambulance hours.

Application Information

[Paramedic Program](#) - Fall 2017 semester - Aug. 1, 2017

[EMT Program](#) - Fall 2017 semester - Aug. 4, 2017

[EMT Program](#) - Spring 2018 semester- Jan. 4, 2018

Contact information regarding program accreditation

The Grayson College EMS program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (www.coaemsp.org) with the goal "to prepare competent entry-level Paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains with or without exit points at the Advanced Emergency Medical Technician and/or Emergency Medical Technician, and/or Emergency Medical Responder levels."

Committee on Accreditation of Educational Programs for the Emergency Medical Services Profession (CoAEMSP)
8301 Lakeview Parkway, Suite 111-213
Rowlett, Texas
214-703-8445
www.coemsp.org

Commission on Accreditation of Allied Health Education Programs
25400 U.S. Highway 19 North, Suite 158
Clearwater, FL 33763
727-210-2350
www.caahep.org

Outcomes

National Registry (NREMT) Pass Rate (2012-2014 average) 86%

Program Retention Rate (2012-2014 average) 63%

Job Placement Rate (from Texas Higher Education Coordinating Board (2012-2014 average) 100%

AAS Degree Requirements

Associate of Applied Science - Paramedicine

The Associate of Applied Science degree in Paramedicine follows the National EMS Standards (2009) curriculum which assists students in acquiring the knowledge and skills to function as beginning practitioners in emergency medical services at the advanced level. Students receive classroom instruction and supervised hospital clinical and coordinated ambulance clinical experience in the emergency care of patients. A grade of "C" or better is necessary in each EMSP course to progress. Upon successful completion of this program, students will receive an *Associate of Applied Science Degree in Paramedicine* and may be eligible to sit for the National Registry examination to become certified or licensed Paramedics. The National Certified Paramedic who has earned an associate degree in

Paramedicine may be eligible to apply for Licensed Paramedic with the Texas Department of State Health Services. The Department of State Health Services and/or the National Registry of EMTs may deny certification or licensure to individuals who have been convicted of a misdemeanor and/or felony.

Subject	Semester Hours
First Semester - Fall	
BIOL 2404	4
ENGL 1301	3
SPCH 1311 , 1315 or 1321	3
Elective	2
	12
Second Semester - Spring	
Social/Behavior Science Core	3
Lang, Phil, Culture/Creative Arts	3
Math, Life & Physical Science Core	3
AA/AS COA Core	3
	12
Third Semester - Fall	
EMSP 1338	3
EMSP 1356	3
EMSP 1355	3
EMSP 2206	2
EMSP 1149	1
EMSP 2137	1
	13
Fourth Semester - Winter Mini	
EMSP 1161	1
	1
Fifth Semester - Spring	
EMSP 2444	4
EMSP 2434	4
EMSP 2330	3
EMSP 2237	2
EMSP 1147	1
EMSP 2135	1
	15
Sixth Semester - Spring Mini	
EMSP 2162	1
	1
Seventh Semester - Summer I	
EMSP 2563	5
	5
Eighth Semester - Summer II	
EMSP 2143	1
	1

Capstone Requirement: All students must complete the capstone requirement: Pass capstone examination.

Note: EMSP courses listed in each semester must be taken simultaneously and must be taken in the sequence identified in the degree plan.

The Associate of Applied Science Degree in Paramedicine requires that the fifth, sixth, seventh, and eighth semester Paramedic courses be successfully completed at GC.

Certificate Degree Requirements

Certificate in Paramedicine

The Certificate of Completion in Paramedicine follows the National EMS Education Standards (2009) curriculum which assists students in acquiring the knowledge and skills to function as beginning practitioners in emergency medical services at the advanced level. Students receive classroom instruction and supervised hospital clinical and coordinated ambulance clinical experience. A grade of "C" or better is necessary in each EMSP course to progress. Upon completion of this program, students will receive a *Certificate of Completion in Paramedicine Award* from Grayson College and may be eligible to sit for the National Registry examination to become certified at the Advanced EMT (AEMT) or Paramedic levels. The Nationally Certified AEMT may be eligible to apply for EMT/Intermediate licensure with the Texas Department of State Health Services. The Nationally Certified Paramedic may be eligible to apply for EMT/Paramedic licensure with the Texas Department of State Health Services. The Department of State Health Services and/or the National Registry of EMTs may deny certification to individuals who have been convicted of a misdemeanor and/or felony.

Subject	Semester Hours
First Semester - Fall	
EMSP 1338	3
EMSP 1356	3
EMSP 1355	3
EMSP 2206	2
EMSP 2137	1
EMSP 1149	1
	13
Second Semester - Winter Mini	
EMSP 1161	1
	1
Third Semester - Spring	
EMSP 2444	4
EMSP 2434	4
EMSP 2330	3
EMSP 2237	2
EMSP 1147	1
EMSP 2135	1
	15
Fourth Semester - Spring Mini	
EMSP 2162	1
	1
Fifth Semester - Summer I	
EMSP 2563	5
	5
Sixth Semester - Spring Mini	
EMSP 2143	1
	1

Capstone Requirement: All students must complete the capstone requirement: Pass capstone examination.

Note: EMSP courses listed in each semester must be taken simultaneously and must be taken in the sequence identified in the degree plan.

The GC Certificate of Completion in Paramedicine requires that the third, fourth, fifth, and sixth semester Paramedic courses be successfully completed at GC.

Certification of Completion - EMT

The Certificate of Completion- EMT follows the National EMS Education Standards (2009) curriculum which assists students in acquiring the knowledge and skills to function as beginning practitioners in emergency

medical services at the basic level. Students receive classroom instruction and supervised hospital clinical and coordinated ambulance clinical experience. A grade of “C” or better is necessary in each EMSP course to progress. Upon completion of this program, students will receive a Certificate of Completion-EMT from Grayson College and may be eligible to sit for the National Registry examination to become certified at the EMT level. The Nationally Certified EMT may be eligible to apply for EMT/Basic licensure with the Texas Department of State Health Services. The Texas Department of State Health Services and/or the National Registry of EMTs may deny certification to individuals who have been convicted of a misdemeanor and/or felony.

Individuals not seeking a Level One Certificate of Completion can complete the nine (9) hours of EMSP coursework to be eligible to test for the NREMT certificate exam.

Subject	Semester Hours
First Semester - Fall or Spring	
AA/AS CAO Core	3
EMSP 1501	5
EMSP 1160	1
EMSP 2305	3
BIOL 2404	4
	16

Capstone Requirement: All students must complete the capstone requirement: Pass capstone examination.

Note: EMSP courses listed in each semester must be taken simultaneously and must be taken in the sequence identified in the degree plan.

*The Nationally Certified EMT may be eligible to apply for EMT/Basic licensure with the Texas Department of State Health Service.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

EMSP 1147 - Pediatric Life Support

Theory and skills necessary for the management of pediatric or neonatal emergencies. The student will manage a pediatric or neonatal patient in accordance with the American Heart Association (AHA) Pediatric Advanced Life Support (PALS) guidelines. Prerequisites: Documentation of college readiness in reading and math, pre-entrance physical exam and health statement, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Health Care Providers from American Heart Association, current EMT/Basic certification from National Registry of EMTs or Texas Department of State Health Services

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Restrictions:

- Must be taken in sequence as listed in degree plan.
-

EMSP 1149 - Trauma Life Support

Theory and skills necessary for the management of trauma emergencies. The student will manage a trauma patient in accordance with the requirements of the National Association of EMTs (NAEMT) PreHospital Trauma Life Support (PHTLS) guidelines.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 1160 - Clinical Emergency Medical Technology/Technician

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, the student will apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures, regulations, laws and interactions within and among political economic, environmental, social and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. Upon completion, students will be able to:

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 1.0

Lab hours: 5.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 1161 - Clinical-Emergency Medical Technology/Technician

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, the student will apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures,

regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry, and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 1338 - Introduction to Advanced Practice

Fundamentals elements associated with emergency medical serviced to include preparatory practices, pathophysiology, medication administration, and related topics. The student will describe the roles and responsibilities of advanced EMS personnel within the EMS system; apply concept of pathophysiology and pharmacology to the assessment and management of emergency patients; administer medications; employ effective communication; interpret medical/legal issues; demonstrate ethical behaviors; and discuss well-being of the paramedic

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 1355 - Trauma Management

Knowledge and skills in the assessment and management of patients with traumatic injuries. The student will integrate the pathophysiological assessment findings to formulate a field impression; implement the treatment plan for the trauma patient; and integrate multiple determinants of trauma conditions into clinical care.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 1356 - Patient Assessment and Airway Management

Knowledge and skills required to perform patient assessment, airway management, and artificial ventilation. The student will perform a history and comprehensive physical exam on various patient populations; establish and/or maintain a patent airway; and demonstrate oxygenation and ventilation of a patient; differentiate respiratory distress, failure and arrest; and interpret results of monitoring devices.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 1501 - Emergency Medical Technician

Preparation for Certification as an Emergency Medical Technician (EMT).

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 5.0

Lab hours: 4.0

Restrictions:

- Must be taken in sequence as listed in degree plan.
-

EMSP 2135 - Advanced Cardiac Life Support

Theory and skills necessary for the management of a cardiovascular emergencies as specified by the American Heart Association (AHA) guidelines. The student will manage a cardiovascular patient according to the American Heart Association (AHA) Advanced Cardiac Life Support (ACLS) guidelines.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2137 - Emergency Procedures

Application of emergency procedures. The student will integrate theory and skills mastered in other courses; and demonstrate comprehensive problem-solving techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2143 - Assessment Based Management

A Capstone course covering comprehensive, assessment based patient care management. Includes specific care when dealing with pediatric, geriatric, and special-needs patients. The student will integrate pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 3.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2162 - Clinical-Emergency Medical Technology/Technician

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, the student will apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry, and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 1.0

Lab hours: 6.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2206 - Emergency Pharmacology

Utilization of medications in treating emergency situations. The student will utilize knowledge of pharmacological concepts to demonstrate safe administration of medications in emergency settings.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2237 - Emergency Procedures

Application of emergency procedures. The student will integrate theory and skills mastered in other courses; and demonstrate comprehensive problem-solving techniques

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2305 - EMS Operations

Knowledge and skills to safely manage multi-casualty incidents and rescue situations; utilize air medical resources; identify hazardous materials and other specialized incidents.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Documentation of college readiness in reading and math.
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2330 - Special Populations

Knowledge and skills necessary to assess and manage ill or injured patients in diverse populations to include neonatology, pediatrics, geriatrics, and other related topics. The student will integrate pathophysiology assessment findings to formulate a field impression, implement a treatment plan for diverse patients of special populations; and integrate multiple determinants of such conditions into clinical care.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2434 - Medical Emergencies

Knowledge and skills in the assessment and management of patients with medical emergencies, including medical overview, neurology, gastroenterology, immunology, pulmonology, urology, hematology, endocrinology, toxicology, and other related topics. The student will integrate pathophysiology assessment finding to formulate a field impression; implement a treatment plan for the medical patient; and integrate multiple determinants of medical condition into clinical care.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2444 - Cardiology.

Assessment and management of patients with cardiac emergencies. Includes single and multi-lead ECG interpretation. The student will integrate the pathophysiological principles and assessment findings to formulate a field impression; and implement a treatment plan for the cardiac patient.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 4.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

EMSP 2563 - Clinical-Emergency Medical Technology/Technician

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, the student will apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry, and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 5.0

Lab hours: 18.0

Restrictions:

- Documentation of college readiness in reading and math
 - Must be taken in sequence as listed in degree plan.
-

English

Overview

For students interested in pursuing an English degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and

electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	14
Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
	15
Fourth Semester	
GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3

090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking
- SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

- MATH 1314 College Algebra
- MATH 1316 Plane Trigonometry
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

- BIOL 1306 Biology for Science Majors I
- BIOL 1307 Biology for Science Majors II
- BIOL 1308 Biology for Non-Science Majors I
- BIOL 1309 Biology for Non-Science Majors II
- BIOL 1414 Introduction to Biotechnology I
- BIOL 2301 Anatomy & Physiology I
- BIOL 2302 Anatomy & Physiology II
- BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
- BIOL 2320 Microbiology for Non-Science Majors
- BIOL 2321 Microbiology for Science Majors
- CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
- CHEM 1311 General Chemistry I
- CHEM 1312 General Chemistry II
- GEOL 1301 Earth Sciences for Non-Science Majors I
- GEOL 1303 Physical Geology
- GEOL 1304 Historical Geology
- GEOL 1305 Environmental Science
- PHYS 1301 College Physics I
- PHYS 1302 College Physics II
- PHYS 1303 Stars and Galaxies
- PHYS 1304 Solar System
- PHYS 1315 Physical Science I
- PHYS 2325 University Physics I
- PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography

PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

ENGL 1301 - Composition I

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Restrictions:

- The course requires a lab component
 - College readiness in reading and writing required.
-

ENGL 1302 - Composition II

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Prerequisites:

- [ENGL 1301](#) - Composition I

Restrictions:

- The course requires a lab component
-

ENGL 2307 - Creative Writing I

Practical experience in the techniques of imaginative writing. May include fiction, nonfiction, poetry, screenwriting, or drama.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

ENGL 2311 - Technical and Business Writing

Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, e-mail messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2322 - British Literature I

A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2323 - British Literature II

A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2327 - American Literature I

A survey of American literature from the period of exploration and settlement through the Civil War. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2328 - American Literature II

A survey of American literature from the Civil War to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2332 - World Literature I

A survey of world literature from the ancient world through the sixteenth century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2333 - World Literature II

A survey of world literature from the seventeenth century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

ENGL 2341 - Bible as Literature

The study of one or more literary genres including, but not limited to, poetry, fiction, drama and film.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

ENGL 2351 - Mexican-American Literature

Survey of Mexican-American/Chicano/Latino literature, including fiction, non-fiction, poetry, and drama. Special emphasis on literary modes specific to the genre such as magical realism and history of the literature. Course is taught in the English language.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGL 1301](#) - Composition I
-

Engineering

Overview

For students planning to pursue a Engineering major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in Engineering** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AS Degree Requirements

Associate of Science - Engineering

Subject	Semester Hours
First Semester	
EDUC/PSYC 1300 or Component Area Option 1	3
Language, Phil, & Culture Core	3
ENGL 1301	3
HIST 1301	3
MATH 2312	3
	15
Second Semester	
MATH 2413	4
ENGL 1302	3
Creative Arts Core	3
HIST 1302	3
ENGR 1201	3
	16
Third Semester	
ENGR 2301	3
MATH 2414	4
GOVT 2305	3
PHYS 2325	3
PHYS 2125	1
	14
Fourth Semester	
ENGR 2302	3
GOVT 2306	3
Social & Behavioral Sciences Core	3
PHYS 2326	3
PHYS 2126	1
MATH 2320	3
	16

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6

040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I
 PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCl 1301 Introductory Sociology
SOCl 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

ENGR 1201 - Introduction to Engineering

This is an introduction to the engineering profession with emphasis on technical communication and team-based engineering design.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra
-

ENGR 1304 - Engineering Graphics I

Introduction to computer-aided drafting using CAD software and sketching to generate two- and three-dimensional drawings based on the conventions of engineering graphical communication; topics include spatial relationships, multi-view projections and sectioning, dimensioning, graphical presentation of data, and fundamentals of computer graphics.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [MATH 1314](#) - College Algebra
-

ENGR 2301 - Engineering Mechanics – Statics

Basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [PHYS 2125](#) - University Physics Laboratory I
 - [PHYS 2325](#) - University Physics I
-

ENGR 2302 - Engineering Mechanics - Dynamics

Basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies, and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [ENGR 2301](#) - Engineering Mechanics – Statics

Restrictions:

- College readiness in reading and math required.
-

English as a Second Language

ESOL 0310 - Beginning ESOL Oral Communication

Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ENGL 1311 - Intermediate ESOL Oral Communication

Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0312 - Advanced ESOL Oral Communication

(CIP # 32.0108.55 12). Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0315 - Advanced ESOL Oral Communication

Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts. (This is a NCBO course, which is non-semester-length, non-course competency-based option and intervention.)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0320 - Beginning ESOL Reading and Vocabulary

Develops English reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0321 - Intermediate ESOL Reading and Vocabulary

Develops English reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0322 - Advanced ESOL Reading and Vocabulary

Develops English reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0325 - Advanced ESOL Reading and Vocabulary

Develops English reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- This is a NCBO course, which is non-semester-length, non-course competency-based option and intervention.
-

ESOL 0330 - Beginning Grammar for Non-Native Speakers

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0331 - Intermediate Grammar for Non-Native Speakers

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0332 - Advanced Grammar for Non-Native Speakers

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0335 - Advanced Grammar for Non-Native Speakers

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- This is a NCBO course, which is nonsemester-length, non-course competency-based option and intervention.
-

ESOL 0340 - Beginning Writing for Non-Native Speakers

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

ESOL 0341 - Intermediate Writing for Non-Native Speakers

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0342 - Advanced Writing for Non-Native Speakers

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ESOL 0345 - Advanced Writing for Non-Native Speakers

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: AL

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Restrictions:

- This is a NCBO course, which is non-semester-length, non-course competency-based option and intervention.
-

Viticulture and Enology

Overview

The grape and wine industry is rapidly growing in Texas and across the United States. The Viticulture and Enology Program at Grayson is designed to prepare students for a variety of career opportunities including starting a commercial vineyard and winery and is part of the **Business & Industry Career Pathway**. Most courses are offered as hybrid with a combination of Internet and weekend classroom instruction. This accommodates students who cannot commit to traditional weekday classes without sacrificing hands-on learning. The Viticulture and Enology Program maintains a 3-acre vineyard, an extensive wine laboratory, and an instructional winery. All serve as an excellent learning resources for students.

The Viticulture and Enology Program offers the convenience of Internet instruction combined with weekend class meetings. A typical 3 credit hour course meets two weekends (Saturday & Sunday) a semester and the remainder of the course material is delivered through Canvas, Grayson's Internet teaching platform. This format accommodates those who cannot commit to traditional weekday classes without sacrificing hands-on winemaking and grape growing. The Viticulture and Enology Program is housed in the T.V. Munson Viticulture and Enology Center on Grayson College's West Extension of campus. The T.V. Munson Center contains a large classroom, an extensive wine laboratory, and an instructional winery. Just down the hill from the T.V. Munson Center is the T.V. Munson Memorial Vineyard which is planted to 3 acres of various grape varieties including over 60 of the original varieties bred by T.V. Munson, and other hybrid and vinifera grapes. Both the vineyard and the winery serve as an excellent learning tool for students in the Viticulture and Enology Program. The Viticulture Program and Enology Program also offers one-day outreach seminars and workshops at various locations across the state. These programs focus topics of specific interest to the grape and wine industry, as well as programming that's geared toward new and future industry members. Upcoming outreach programs can be found on the Viticulture and Enology Program Continuing Education page.

Course Requirements

The Viticulture & Enology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Degree in Viticulture and Enology requires that you meet TSI requirements.

Facilities and Location

As an instructional site, the T.V. Munson Center's 5,000-square-foot facility houses a library for research documents and historic memorabilia; classroom and office space; workroom facilities for processing grape plants, juice and wine. Additionally, the Center has classrooms for the delivery of lectures, seminars, workshops and demonstrations. As a repository and research site, the Viticulture and Enology Center houses an extensive set of written materials related to viticulture and enology. Among these documents are historical materials written about, and by, T.V. Munson regarding the breeding of grapes native to this area of the world. The GC Viticulture & Enology Center rests on five acres of land on the College's West Campus—Extension. The Center's hilltop view overlooks the T.V. Munson Memorial Vineyard and is a short one-hour drive from the DFW Metroplex.

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
FDST 1323	3
Social & Behavioral Science Core	3
FDST 1370	3
ENGL 1301	3
Mathematics/Life & Physical Core	3
	15
Second Semester	
FDST 2320	3
MRKG 1191	1
Lang, Phil, Culture/Creative Arts Core	3
Mathematics/Life & Physical Science Core	3
Social and Behavioral Science Core	3
	13
Third Semester	
FDST 1320	3
Lang, Phil, Culture/Creative Arts Core	3
SPCH 1311 , 1315 , or 1321	3
FDST 2371	3
FDST 2433	4
	16
Fourth Semester	
FDST 2319	3
FDST 2330	3
*Elective	5
FDST 2286	2
Social & Behavioral Science Core	3
	16

*Elective must be approved by program coordinator.

Certificate Degree Requirements

Enology Certificate

Subject	Semester Hours
First Semester	
FDST 1320	3
FDST 2371	3

Mathematics/Life & Physical Science Core	3
	9

Second Semester

FDST 2319	3
FDST 2330	3
FDST 2286	2
	8

Viticulture Certificate

Subject	Semester Hours
First Semester	
FDST 1323	3
FDST 1370	3
Mathematics/Life & Physical Science Core	3
	9
Second Semester	
FDST 2320	3
FDST 2371	3
FDST 2286	2
	8

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I
- BIOL 1307/1107 Biology for Science Majors II
- BIOL 1308/1108 Biology for Non-Science Majors I
- BIOL 1309/1109 Biology for Non-Science Majors II
- BIOL 1414 Introduction to Biotechnology I
- BIOL 2301/2101 Anatomy & Physiology I
- BIOL 2302/2102 Anatomy & Physiology II
- BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
- BIOL 2320/2120 Microbiology for Non-Science Majors
- BIOL 2321/2121 Microbiology for Science Majors
- CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
- CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

FDST 1270 - Wine Laws and Regulations

An overview of federal, state, and local regulations pertaining to wine production and sales. Topics include: state and federal winery permits, wine production, taxation, reporting, labeling, and sales and distribution.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

FDST 1320 - Principles of Enology I

Designed for training students entering the field of viticulture and enology in the history and development of the wine industry; factors affecting wine quality; winemaking operations including harvest, scheduling, crushing, fermentation, and record keeping.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 1323 - Principles of Viticulture I

Designed for training students entering the field of viticulture and enology in the basic principles underlying pruning, training, grafting, and propagation of vines; climatic requirements; utilization of crop; economic factors affecting choices of vineyard type and location.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 1370 - Grapevine Biology

The study of grapevine biology including taxonomy, distribution, morphology, physiology, genetics, and improvement.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

FDST 2286 - Internship – Food Science

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lab hours: 8.0

FDST 2319 - Principles of Enology II

Continuation of FDST 1320. Designed for training students entering the field of viticulture and enology in safety, sanitation procedures, analysis and operation of enology facility equipment.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [FDST 1320](#) - Principles of Enology I
-

FDST 2320 - Principles of Viticulture II

Continuation of FDST 1323. Designed for training students entering the field of viticulture and enology in the economic and scientific principles of vineyard management practices including irrigation, mineral and carbohydrate nutrition, flower development and fruit set, viral and fungal diseases, and insect control.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [FDST 1323](#) - Principles of Viticulture I
-

FDST 2330 - Analysis of Must and Wine

Designed for training students entering the field of viticulture and enology in the principles and practices of wine and fermented beverage analysis including tests for free and total SO₂, volatile and titratable acidity, pH, Brix and total alcohol.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [CHEM 1311](#) - General Chemistry I
-

FDST 2335 - Winegrowing Regions of the World

A viticulture review of the management systems used in all of the leading wine regions of the world. To include Chablis, Mersault, Montrachet, California, Australia, Chile, Argentina, Medoc, Graves Sauternes, St. Emilion, Tuscany, Mosel, Rhinegau, Loire, Alsace, and how the practices of the regions are best used in Texas and Oklahoma. Formal wine tastings will be conducted each day to determine the strong and or weak components of each wine.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0
Prerequisites:

- [CHEM 1311](#) - General Chemistry I
-

FDST 2371 - Grape and Wine Chemistry

An overview of the chemistry of grapes and wine with a focus on the impact of viticultural and enological factors. Topics include acids, sugars, phenolics, fermentation end-products, additives, winemaking units and calculations, and soil chemistry.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 3.0

FDST 2433 - Wine Types and Sensory Evaluation

A study of the major types of wines with an emphasis on the development of sensory evaluation techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 4.0
Lecture hours: 3.0
Lab hours: 3.0

Geography

Overview

For students planning to pursue a Geography major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in General Studies** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Science - General Studies

The General Studies AS degree at Grayson College is designed for transfer into STEM, Social or Behavioral Sciences, Humanities, Language or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students desired major. For a STEM major, we recommend taking elective courses in Science or Mathematics.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3

Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	14
Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
	15
Fourth Semester	
GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

GEOL 1305 Environmental Science

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

GEOG 1302 - Cultural Geography

Introduction to the concepts which provide a foundation for continued study of geography. Includes the different elements of natural environment as related to human activities, modes of living and map concepts. The first semester emphasizes physical geography and the second semester emphasizes cultural geography. This particular course focuses on the development of regional variations of culture. Topics include the distribution of races, religions, and languages. Aspects of material culture are also included. Emphasis is on origins and diffusion.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

GEOG 1303 - World Regional Geography

Study of major world regions with emphasis on prevailing conditions and developments, including emerging conditions and trends, and the awareness of diversity of ideas and practices to be found in those regions. Course content may include one or more regions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0
Lecture hours: 3.0

GEOG 2312 - Economic Geography

Analytical study of the historical development of particular economic distributions as they relate to social, cultural, political, and physical factors. Includes critical inquiry into the reasons for location of various types of economic activity, production, and marketing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Restrictions:

- Cross-listed as ECON 2311. Only one of the cross-listed courses can be taken for credit.
-

Geology

Overview

For students planning to pursue a Geology major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in General Studies** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Science

Subject	Semester Hours
First Semester	
ENGL 1301	3
Life and Physical Sciences Core	1
Science Lab	3
EDUC 1300/PSYC 1300 or Component Area Option	3
Mathematics Core	3
HIST 1301 or 1302	3
	16
Second Semester	
ENGL 1302	3
Life and Physical Sciences Core	3
Science Lab	1
ARTS 1301 , DRAM 1310 or MUSI 1306	3
Component Area Option	3
HIST 1301 or 1302	3
	16
Third Semester	
GOVT 2305 or 2306	3
Biological & Physical Science Elective	3
Science Lab	1
Biological & Physical Science Elective	3
Science Lab	1

Language, Philosophy & Culture	3
	14

Fourth Semester

GOVT 2305 or 2306	3
Biological & Physical Science Elective	3
Science Lab	1
Biological & Physical Science Elective	3
Science Lab	1
GEOG 1302 or 1303	3
	14

Note: All sciences must be science major courses. Students are encouraged to select electives that meet the graduation requirement of the senior institution.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II

DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

GEOL 1101 - Earth Sciences Laboratory I

Survey of physical and historical geology, astronomy, meteorology, oceanography, and related sciences. An analysis of minerals, rocks, maps, weather, climate and landforms.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [GEOL 1301](#) - Earth Sciences I

Restrictions:

- College readiness in reading required.
-

GEOL 1103 - Physical Geology Laboratory

Principles of physical and historical geology. Study of the earth's composition, structure, and internal and external processes. Includes the geologic history of the earth and the evolution of life. Laboratory exercises related to minerals, rocks, topographic maps, contours, and geologic structures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [GEOL 1303](#) - Physical Geology

Restrictions:

- College readiness in reading required.
-

GEOL 1104 - Historical Geology Laboratory

Principles of physical and historical geology. Study of the earth's composition, structure, and internal and external processes. Includes the geologic history of the earth and the evolution of life. Laboratory exercises related to geologic time, relative dating, evolution and Earth's history.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [GEOL 1304](#) - Historical Geology

Restrictions:

- College readiness in reading required.
-

GEOL 1105 - Environmental Science Laboratory

The earth as a habitat. Interrelationships between humans and the environment. Geologic factors in urban and regional land use planning. Laboratory exercises related to minerals, rocks, pollution, land use and waste management.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [GEOL 1305](#) - Environmental Science

Restrictions:

- College readiness in reading required.
-

GEOL 1301 - Earth Sciences I

Survey of physical and historical geology, astronomy, meteorology, oceanography, and related sciences.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading required.
-

GEOL 1303 - Physical Geology

Principles of physical geology. Study of the earth's composition, structure, and internal and external processes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading required.
-

GEOL 1304 - Historical Geology

Principles of historical geology. Study of the geologic history of the earth and the evolution of life.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading required.
-

GEOL 1305 - Environmental Science

The earth as a habitat. Interrelationships between humans and the environment. Geologic factors in urban and regional land use planning

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading required.
-

Government

Overview

For students interested in pursuing an Government degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3

HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
<hr/>	
16	
<hr/>	
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
<hr/>	
14	
<hr/>	
Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
<hr/>	
15	
<hr/>	
Fourth Semester	
GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
<hr/>	
15	

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II

ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

GOVT 2107 - Federal and Texas Constitutions

A study of the United States and state constitutions, with special emphasis on Texas. Pre-requisite: By permission only. Enrollment limited to students who have already completed a minimum of 6 SCH of government courses but have not satisfied the statutory requirement for study of the federal and state constitutions. Ensures compliance with TEC §51.301.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

GOVT 2305 - Federal Government

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

GOVT 2306 - Texas Government

Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

GOVT 2389 - Terrorism

Terrorism and political violence. This elective academic co-op course introduces students to terrorism and the war against terrorism. Particular emphasis is placed on the citizen's response to emerging public policy at the local, state, and national levels. Students will apply concepts learned in class to specific scenarios applicable to the public sector in order to address the urgent safety and security concerns facing society. Open to all students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line mangers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets

learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
First Semester	
CHEF 1205*	3
HAMG 1340	3
HAMG 1221	3
ENGL 1301	3
MATH 1332 or 1314	3
	15
Second Semester	
Social/Behavioral Science Core	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 1213	3
HAMG, PSTR, CHEF or FDST Elective	
	15
Third Semester	
SPCH 1311 or 1321	3
CHEF 2231	3
HAMG 2301	3
HAMG 2307	3
Lang, Phil, Culture/Creative ARTS CORE	3
	15
Fourth Semester	
HAMG 2305	3
HAMG 2332	3
HAMG 2337	3
RSTO 1304	3
HAMG 2167	3
CHEF 1314	
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
First Semester	
CHEF 1205*	2
CHEF 1301	3
HAMG 1221	2
ENGL 1301	3
MATH 1332 or 1314	3
SPCH 1311 or 1321	3
	16
Second Semester	
Lang, Phil, Culture/Creative Arts Core	3
PSTR 1301	3
HAMG 1319	3
CHEF 2231	2
CHEF 1345	3
	14
Third Semester	
HAMG 2301	3
HAMG 1340	3
PSTR 2331	3
HAMG 1324	3
CHEF 1310	3
	15
Fourth Semester	
RSTO 1304	3
CHEF 1302	3
CHEF 1314	3
Social/Behavioral Science Core	3
CHEF 1164	1
IFWA 1210	2
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
First Semester	

HAMG 2301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3
RSTO 1304	3
HAMG 2307	3
<hr/>	
	16

Second Semester

HAMG 2332	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 2337	3
HAMG 1213	2
<hr/>	
	17

Third Semester

HAMG 2167	1
HAMG 2305	3
<hr/>	
	4

Culinary Arts Certificate

Subject	Semester Hours
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First Semester

CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3
PSTR 1301	3
<hr/>	
	13

Second Semester

CHEF 1345	3
CHEF 2231	2
CHEF 1302	3
HAMG 1319	3
IFWA 1210 or BIOL 1322	2
<hr/>	
	13

Third Semester

CHEF 1314	3
RSTO 1304	3
PSTR 2331	3
CHEF 1310	3
CHEF 1164	1
<hr/>	
	13

Basic Culinary Skills Certificate

Subject	Semester Hours
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First Semester

CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
PSTR 1301	3
EDU 1300/PSYC 1300	3
<hr/>	
	13

Second Semester

CHEF 1345	3
CHEF 1310	3
CHEF 2231	2
RSTO 1304	3
POFT 1120	1
<hr/>	
	12

Catering and Event Planning Certificate

Subject	Semester Hours
First Semester	
TRVM 2333	3
CHEF 1205	2
TRVM 1327	3
CHEF 1301	3
HAMG 1340	3
<hr/>	
	14
Second Semester	
RSTO 2307	3
CHEF 2231	2
CHEF 1310	3
FDST 2433	4
POFT 1120	1
<hr/>	
	13

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

HAMG 1213 - Front Office Procedures

Functions of front office operations as they relate to customer service. Includes a study of front office interactions with other departments in the lodging operation. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

HAMG 1221 - Introduction to Hospitality Industry

Introduction to the elements of the hospitality industry. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

HAMG 1319 - Computers in Hospitality

An introduction to computers and their relationship as an information system to the hospitality industry. The course includes an overview of industry-specific software. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

HAMG 1324 - Hospitality Human Resources Management

Principles and procedures of human resource management in the hospitality industry. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HAMG 1340 - Hospitality Legal Issues

A course in legal and regulatory requirements that impact the hospitality industry. Topics include: Occupational Safety and Health Administration (OSHA), labor regulations, tax laws, tip reporting, franchise regulations, and product liability laws. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 2167 - . Practicum (or Field Experience) - Hospitality Administration/Management, General

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lecture hours: 12.0

HAMG 2301 - Principles of Food and Beverage Operations

An introduction to food and beverage management in various hospitality environments. Emphasizes cost controls from procurement to marketing and sales. Examines forecasting, menu planning and pricing, logistical support, production, purchasing, and quality assurance. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 2305 - Hospitality Management and Leadership

An overview of management and leadership in the hospitality industry with an emphasis on management philosophy, policy formation, communications, motivation, and team building. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 2307 - Hospitality Marketing and Sales

Identification of the core principles of marketing and sales and their impact on the hospitality industry. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 2332 - Hospitality Financial Management

Methods and applications of financial management within the hospitality industry. Primary emphasis on sales accountability, internal controls, and report analysis. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HAMG 2337 - Hospitality Facilities Management

Identification of building systems, facilities and sustainability management, and security and safety procedures. 3 credit hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Heating, Air Conditioning & Refrigeration Technology

Overview

Grayson College's Heating, Air Conditioning and Refrigeration Technology program offers three levels of training and skills. Many students start with the Technician Apprentice Certificate, then build on those skills with the Technician Certificate. The highest level is the Associate of Applied Science degree. Grayson College's courses teach the skills recommended by area employers who work in the industry. The program is offered on the Main Campus in the Career and Technology Center, which is equipped with the latest technology.

Programs of study include:

- Technician Apprentice Certificate (16 hours)
- Technician Certificate (32 hours)
- Associate of Applied Science Degree (60 hours)

Course Requirements

Grayson College requires a high school diploma or equivalent. The Associate of Applied Science Degree requires successful completion of the TSI requirements. Interested students are strongly encouraged to get advised and follow a degree plan, as some courses are not available every semester.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive exit exam prior to graduation.

Local Employers

Alpine, Worthington Air, Tyson Foods, Alverson Refrigeration

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
HART 1407	4
HART 1401	4
ENGL 1301	3
DFTG 1325	3
MATH 1314, 1332 , or 1342	3
<hr/>	
17	
<hr/>	
Second Semester	

HART 1445	4
HART 2442	4
Social/Behavioral Science	3
SPCH 1311 , 1315 , or 1321	3
	14

Third Semester

HART 2436	4
Lang, Phil, Culture/Creative Arts	3
Math/Life & Physical Science Core	4
HART 2449	4
	15

Fourth Semester

HART 2445	4
DFTG 1317	3
BUSG 2309	3
HART 1441	4
	14

HART 1445, HART 2442, HART 2436, HART 2445 and HART 1441 are taught on a rotating basis. Two classes every 3rd semester.

Capstone Experience. All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Certificate Degree Requirements

Technician Apprentice

Subject	Semester Hours
First Semester	
HART 1407	4
HART 1401	4
	8
Second Semester	
HART*	4
HART*	4
	8

*Any two of the six (6) remaining HART courses. HART 1445, HART 2442, HART 2449, HART 2436, HART 2445 and HART 1441 are taught on a rotating basis. Two classes every 3rd semester.

Capstone Experience. All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Technician

Subject	Semester Hours
First Semester	
HART 1407	4
HART 1401	4
	8
Second Semester	
HART*	4
HART*	4
	8

Third Semester	
HART*	4
HART*	4
	8
Fourth Semester	
HART*	4
HART*	4
	8

*All six (6) of the remaining HART courses.

Capstone Experience. All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCl 1301 Introduction to Sociology
SOCl 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

HART 1401 - Basic Electricity for HVAC

Principles of electricity as required by HVAC technicians including proper use of test equipment, A/C and D/C circuits, and component theory and operation. Advanced electrical instruction and skill building in installation and servicing of air conditioning and refrigeration equipment including detailed instruction in motors and power distribution, motors, motor controls and application of solid state devices. The student will exhibit knowledge of basic principles of electricity, electrical current, circuitry, and A/C devices; apply Ohm's law to electrical calculations; perform electrical continuity, voltage and current tests with appropriate meters and demonstrate electrical safety.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0
Lecture hours: 4.0
Lab hours: 4.0

HART 1407 - Refrigeration Principles

An introduction to the refrigeration cycle, basic thermodynamics, heat transfer, temperature/pressure relationship, safety, refrigeration containment, and refrigeration components. The student will identify the components and explain the application and operation of the basic refrigeration cycle; explain theories of thermodynamics and heat transfer; demonstrate proper application and use of tools, test equipment, and safety procedures; and demonstrate accepted refrigeration applications.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 4.0
Lab hours: 4.0

HART 1441 - Residential Air Conditioning

A study of components, applications, and installation of mechanical air conditioning systems including operating conditions, troubleshooting, repair, and charging of air conditioning systems. Demonstrate systems applications; implement and demonstrate industry accepted refrigerant charging procedures; demonstrate air conditioning system installation procedures; and demonstrate component and part diagnostics and replacement.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 4.0
Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 1445 - Gas and Electric Heating

A study of the procedures and principles used in servicing heating systems including gas fired and electric furnaces. The student will identify different types of gas furnaces; identify and discuss component operation of gas furnaces; service and troubleshoot gas furnaces; perform safety inspections on gas and electric furnaces; identify unsafe operation of gas furnaces; identify and discuss component operation of electric furnaces; and service and troubleshoot electric furnaces.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 4.0
Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 2436 - Air Conditioning Troubleshooting

An advanced course in application of troubleshooting principles and use of test instruments to diagnose air conditioning and refrigeration components and system problems including conducting performance tests.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 2442 - Commercial Refrigeration

Theory of and practical application in the maintenance of commercial refrigeration; high, medium, and low temperature applications and ice machines. The student will explain and apply high, medium, and low temperature systems operation, and explain and apply ice machine and packaged refrigeration system operation.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 2445 - Air Conditioning Systems Design

A study of the properties of air and results of cooling, heating, humidifying or dehumidifying; heat gain and heat loss calculations including equipment selection and balancing the air system. The student will calculate heat loss and heat gain; design a complete duct system; size heating and cooling equipment of the structure; perform a load calculation using Manual J.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 1.0

Lab hours: 4.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
 - [HART 1407](#) - Refrigeration Principles
-

HART 2449 - Heat Pumps

A study of heat pumps, heat pump control circuits, defrost controls, auxiliary heat, air flow, and other topics related to heat pump systems. The student will be able to explain a reverse cycle system; list the mechanical and electrical components for the heat pump operation; and explain the operation of heat pump modes including cooling, heating, defrost, emergency heat, and auxiliary heat mode. Identify and explain different methods of accomplishing defrost; charge a system correctly in the heating and cooling mode; troubleshoot electrical and mechanical components;

perform tests for adequate air flow; and determine balance point and co-efficiencies of performance (C.O.P.); and define attributes of geothermal heat pump systems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [HART 1401](#) - Basic Electricity for HVAC
- [HART 1407](#) - Refrigeration Principles

History

Overview

For students interested in pursuing an History degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	14
Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3

Academic Elective	3
Academic Elective	3
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	15

Fourth Semester

GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
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	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

HIST 1301 - United States History I

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 1302 - United States History II

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2301 - Texas History

A survey of the political, social, economic, cultural, and intellectual history of Texas from the pre-Columbian era to the present. Themes that may be addressed in Texas History include: Spanish colonization and Spanish Texas;

Mexican Texas; the Republic of Texas; statehood and secession; oil, industrialization, and urbanization; civil rights; and modern Texas.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2311 - Western Civilization I

A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from human origins to the 17th century. Themes that should be addressed in Western Civilization I include the cultural legacies of Mesopotamia, Egypt, Greece, Rome, Byzantium, Islamic civilizations, and Europe through the Middle Ages, Renaissance, and Reformations.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2312 - Western Civilization II

A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from the 17th century to the modern era. Themes that should be addressed in Western Civilization II include absolutism and constitutionalism, growth of nation states, the Enlightenment, revolutions, classical liberalism, industrialization, imperialism, global conflict, the Cold War, and globalism.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2321 - World Civilization I

A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the emergence of human cultures through the 15th century. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include the emergence of early societies, the rise of civilizations, the development of political and legal systems, religion and philosophy, economic systems and trans-regional networks of exchange. The course emphasizes the development, interaction and impact of global exchange.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HIST 2322 - World Civilization II

A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the 15th century to the present. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include maritime exploration and transoceanic empires, national/state formation and industrialization, imperialism, global conflicts and resolutions, and global economic integration. The course emphasizes the development, interaction and impact of global exchange.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Office and Computer Tech

Overview

The development and use of computers in the office has created a need for individuals who are proficient in areas beyond the traditional office skills. Today's office requires individuals who are able to take full advantage of the technology available in order to get the job done quickly and accurately.

The **Associate of Applied Science Degree in Office & Computer Technology** is designed to prepare individuals for the challenges of today's office. Students will obtain the skills and technical knowledge necessary to enter the job market in a variety of office administration positions. The college also offers several certificate options.

The **Administrative Assistant Certificate** and **Medical Administrative Assistant Certificate** prepares students for assisting an executive or professional in decision making, conducting research, meeting and working with the public, and managing the office. The certificates could also feed into the associate degree, if desired.

The **Accounting Office Support Certificate** prepares individuals for careers in the accounting field. This certificate will also feed into the Administrative Assistant certificate if the student desires to increase his or her knowledge in these areas.

The **Applications Software Specialist Certificate** concentrates on computer software used in the office. The student will have a strong working foundation of several software packages currently used in industry today. Software integration will be emphasized. This certificate provides an excellent opportunity for an employee with strong organizational skills who wants to specialize in computer software.

Course Requirements

Grayson County requires a high school diploma or equivalent. The Associate of Applied Science Degree requires successful completion of the TSI requirements. Some of the courses require prerequisites. Refer to the GC catalog for specific information.

Capstone Experience

Graduation with the Associate of Applied Science Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Development). This class must be taken during the semester of graduation.

Local Employers

Cigna, City of Denison, Douglass Distributing, Grayson College, Sherman ISD, Texoma Medical Center, Wilson N. Jones Hospital

AAS Degree Requirements

Associate of Applied Science - Office and Computer Technology

Subject	Semester Hours
First Semester	
ENGL 1301	3
POFT 1301	3
ACNT 1303	3
Social and Behavioral Science Core	3
	12
Second Semester	
ACNT 1304	3
POFT 2312	3
POFI 1301	3

POFI 2301	3
POFT 2303 or ARTC 1325	3
	15

Third Semester

Math/Life and Physical Science Core	3
SPCH 1311 or 1321	3
Lang, Phil, Culture/Creative Arts Core	3
ITSW 1304	3
ITSC 2321	3
Elective	3
	18

Fourth Semester

POFT 2331	3
ACNT 1313	3
ITSW 1307	3
POFT 1313 (Capstone)	3
Elective	3
	15

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Certificate Degree Requirements

Accounting Office Support Certificate

Subject	Semester Hours
First Semester	
POFI 1301	3
POFT 1301	2
POFT 2303	2
POFI 2301	3
ACNT 1303	3
ITSW 1304	3
	18
Second Semester	
ACNT 1304	3
ACNT 1313	3
ITSW 1307	3
POFT 2312	3
POFT 1313 (Capstone)*	3
POFT 2331	3
	18

Administrative Assistant Certificate

Subject	Semester Hours
First Semester	
POFT 1301	3
POFI 2301	3
POFT 2303	2

[ACNT 1303](#) 3

12

Second Semester

[POFT 2312](#) 3

[POFI 1301](#) 3

[ACNT 1304](#) 3

[POFT 2331](#) 3

[ITSW 1307](#) 3

15

Third Semester

[ITSW 1304](#) 3

[ITSC 2321](#) 3

[POFT 1313](#) (Capstone)* 3

[ACNT 1313](#) 3

Elective 3

15

Applications Software Specialist Certificate

Subject	Semester Hours
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First Semester

[POFT 2303](#) 3

[POFT 1301](#) 3

[POFI 2301](#) 3

[ITSW 1304](#) 3

[ARTC 1325](#) 3

15

Second Semester

[ITSC 2321](#) 3

[POFT 2312](#) 3

[ITSW 1307](#) 3

[POFT 1313](#) (Capstone)* 3

[POFI 1301](#) 3

15

Medical Administrative Assistant Certificate

Subject	Semester Hours
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First Semester

[POFT 1301](#) 3

[HITT 1305](#) 3

[POFT 2303](#) 3

[POFI 2301](#) 3

[POFI 1301](#) 3

15

Second Semester

[POFT 2312](#) 3

[ITSW 1304](#) 3

[HITT 1341](#) 3

[POFT 2331](#) 3

12

Third Semester (Summer I)

[HITT 1311](#) 3

[HITT 2346](#) 3

	6
Fourth Semester (Summer II)	
HITT 1353	3
	3
Fifth Semester	
POFT 1313 (Capstone)*	3
POFM 1317	3
	6

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Marketable Skills Award

Accounting Office Support Marketable Skills Award

Subject	Semester Hours
First Semester	
POFI 1301	3
POFI 2301	3
ITSW 1304	3
	9

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

HITT 1305 - Medical Terminology I

(FALL ONLY) Study of word origin and structure through the Introduction of prefixes, suffixes, root words, plurals, abbreviations and symbols, surgical procedures, medical specialties, and diagnostic procedures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

HITT 1311 - Computers in Health Care

(SUMMER ONLY) Introduction to the concepts of computer technology related to health care and the tools and techniques for collecting, storing, and retrieving health care data. Introduction to electronic billing using Medical Manager software. (

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

HITT 1341 - Coding and Classification Systems

(SPRING ONLY) Application of basic coding rules, principles, guidelines, and conventions. Includes assignment and application of ICD, CPT, and HCPCS coding guidelines with emphasis on physician billing as well as code selection for Evaluation and Management (E/M) and Medical/Surgical cases.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HITT 1353 - Legal and Ethical Aspects of Health Information

(SUMMER ONLY) Concepts of privacy, security, confidentiality, ethics, health care legislation, and regulations relating to the maintenance and use of health information.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HITT 2346 - Advanced Medical Coding

Advanced concepts of ICD and CPT coding rules, conventions, and guidelines in complex case studies. Investigation of government regulations and changes in health care reporting.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Health Science Related Courses

HPRS 1201 - Introduction to Health Professions

An overview of roles of various members of the health care system, educational requirements, and issues affecting the delivery of health care. (Internet Class Only)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- (Internet Class Only)
-

HPRS 1209 - Interpretation of Laboratory Results

An overview of roles of various members of the health care system, educational requirements, and issues affecting the delivery of health care. (Internet Class Only)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- (Internet Class Only)
-

HPRS 1303 - End of Life Issues

Grief, loss, and end of life issues. Includes instruction in preparing caregivers to function in settings where communication skills are used to give psychosocial support to persons and their families at the end of life.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- (Internet Class Only)
-

HPRS 2300 - Pharmacology for Health Professions

This 3 credit hour course is an intermediate level course for students preparing for a career in healthcare and healthcare professionals involved in the administration of medications or the care of clients receiving medications. Areas of study include drug classifications, actions, therapeutic uses, adverse effects, methods of administration, client education, and calculation of dosages

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Restrictions:

- (Internet Class Only)
-

HPRS 2301 - Pathophysiology

Study of the pathology and general health management of diseases and injuries across the life span. Topics include etiology, symptoms, and the physical and psychological reactions to diseases and injuries.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Restrictions:

- (Internet Class Only)
-

HPRS 2302 - Medical Terminology

A study of medical terminology, word origin, structure, and application with an emphasis on building a professional vocabulary required for employment within the allied health care field.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Restrictions:

- (Internet Class Only)
-

HPRS 2321 - Medical Law and Ethics for Health Professionals

Principles, procedures, and regulations governing the legal and ethical relationships among physicians, patients, and health care professionals. Includes current ethical issues related to the various healthcare professions and patient confidentiality.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Restrictions:

- (Internet Class Only)
-

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to

be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS) degree** and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
First Semester	
ENGL 1301	3
HIST 1301	3
MATH 1324 or higher	3
EDUC 1300/PSYC 1300 or Component Area Option 1	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Second Semester	
Component Area Option 2	3
HIST 1302	3
MATH 1325 or higher	3
BUSI 1301	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Third Semester	
ACCT 2301	3
ECON 2301	3
Creative Arts Core	3
GOVT 2305	3
BCIS 1305	3
	15
Fourth Semester	
ACCT 2302	3
ECON 2302	3
GOVT 2306	3
SPCH 1311 or 1321 *	3
Language, Philosophy & Culture Core	3
	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
First Semester	
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
	15
Second Semester	
ACNT 1304	3
BGMT 1305	3
BGMT 1327	3
ECON 2301	3
SPCH 1321 or SPCH 1311*	3
	15
Third Semester	
BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
	15
Fourth Semester	
ENGL 1301	3
ECON 2302	3
Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Capstone)	3
Language, Philosophy & Culture Core	3
	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
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First Semester

ACNT 1304	3
BMGT 1305	3
BMGT 1327	3
ECON 2301	3
SPCH 1311 or 1321 ²	3
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	15

Second Semester

BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
Capstone Exam	
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	16

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

²SPCH 1321 is preferred.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
Certificate Capstone Exam	
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	15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302	3
MRKG 1311	3
MRKG 2333	3
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	9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6

040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I
 PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCl 1301 Introductory Sociology
SOCl 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

HRPO 2301 - Human Resources Management

Behavioral and legal approaches to the management of human resources in organizations.
Upon completion, students will be able to:

- Understand behavioral and legal approaches to the management of human resources in organizations.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

HRPO 2305 - Human Resources Information Systems

An introduction to the pre-packaged Human Resource Information Systems (HRIS) programs available. Identifies issues involved in creating, implementing, and maintaining human resources systems and the benefits of human resources systems. Examines key models such as staffing, employee development, position management, total compensation, outsourcing options, and professional development.

Upon completion, students will be able to:

- Identify issues involved in creating, implementing, and maintaining human resources systems and the benefits of human resources systems

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 2.0

Humanities

Overview

For students interested in pursuing an Humanities degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	14
Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
	15
Fourth Semester	
GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

HUMA 1301 - Introduction to the Humanities I

This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

HUMA 1302 - Introduction to the Humanities II

This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create. Part of the course involves visiting museums and attending performances in our local and larger (DFW) areas.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Electrical Technology

Overview

Electricians are needed to install and maintain electrical power, communications, lighting, and control systems in homes, businesses, and factories. They work indoors and outdoors, in nearly every type of facility. Almost all electricians work full time, which may include evenings and weekends. Although the work is not as dangerous as other construction occupations, potential injuries include electrical shocks and burns, cuts, and falls.

According to the Occupational Outlook Handbook, most electricians learn through an apprenticeship, and many start out by attending a technical school. Most states require electricians to be licensed. The median annual wage for electricians was \$49,840 in May 2012.

Employment of electricians is projected to grow 20 percent from 2012 to 2022, faster than the average for all occupations. As homes and businesses require more wiring, electricians will be needed to install the necessary components. Electricians with the widest variety of skills should have the best job opportunities.

Grayson College's Electrician Technology program is located on the south campus in Van Alstyne and offers three levels of certificates leading to an AAS degree.

Course Requirements

The Associate of Applied Science Degree and the Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have satisfied TSI requirements.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a Comprehensive Exam.

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	2
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1329	3
ELPT 2164	1
ELTN 1343	3
	13
Third Semester	
ENGL 1301	3
ELPT 1341	3
ELPT 2343	3
ELPT 1357	3
IEIR 1312	3
ELPT 2319	3
	18
Fourth Semester	
ITSC 1309	3
MATH 1332	3
ELPT 2165	1
Social & Behavioral Science Core	3
Lang, Phil, Culture/Creative Arts Core	3
ENGL 2311	3
	16

Certificate Degree Requirements

Certificate – Basic Electrical Technology ETP-1

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	2
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3

ELPT 1329	3
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	9

Certificate – Maintenance Electrician ETP-2

Subject	Semester Hours
First Semester	
CNBT 1300	2
ELPT 1215	3
ELPT 1311	3
<hr/>	
	8
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT 1341	3
<hr/>	
	9
Third Semester	
ELPT 1357	3
ELPT 2319	3
ELPT 2350	3
<hr/>	
	9

Certificate – Advanced Electrical Technology ETP-3

Subject	Semester Hours
First Semester	
ELPT 1221	2
ELPT 1215	3
ELPT 1311	3
ELTN 1391	3
CNBT 1300	3
<hr/>	
	13
Second Semester	
ELPT 2305	3
ELPT 1325	3
ELPT1329	3
ELPT 2164	1
ELTN 1343	3
<hr/>	
	13
Third Semester	
ELPT 2343	3
ELPT 1341	3
IEIR 1312	3
ELPT 1357	3
ELPT 2319	3
ELPT 2165	1
<hr/>	
	16

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

IEIR 1312 - Distribution Systems

Fundamentals of distribution systems including single phase and three phase systems, grounding, ground fault protection, and the National Electrical Safety Code. Identify the components of a single phase and three phase system; describe grounding methods and procedures; and demonstrate knowledge of electrical codes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line mangers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
First Semester	
CHEF 1205*	3
HAMG 1340	3
HAMG 1221	3
ENGL 1301	3
MATH 1332 or 1314	3
	15
Second Semester	
Social/Behavioral Science Core	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 1213	3
HAMG, PSTR, CHEF or FDST Elective	
	15
Third Semester	
SPCH 1311 or 1321	3
CHEF 2231	3
HAMG 2301	3
HAMG 2307	3
Lang, Phil, Culture/Creative ARTS CORE	3
	15
Fourth Semester	

HAMG 2305	3
HAMG 2332	3
HAMG 2337	3
RSTO 1304	3
HAMG 2167	3
CHEF 1314	
<hr/>	
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
<hr/>	
First Semester	
CHEF 1205*	2
CHEF 1301	3
HAMG 1221	2
ENGL 1301	3
MATH 1332 or 1314	3
SPCH 1311 or 1321	3
<hr/>	
	16
<hr/>	
Second Semester	
Lang, Phil, Culture/Creative Arts Core	3
PSTR 1301	3
HAMG 1319	3
CHEF 2231	2
CHEF 1345	3
<hr/>	
	14
<hr/>	
Third Semester	
HAMG 2301	3
HAMG 1340	3
PSTR 2331	3
HAMG 1324	3
CHEF 1310	3
<hr/>	
	15
<hr/>	
Fourth Semester	
RSTO 1304	3
CHEF 1302	3
CHEF 1314	3
Social/Behavioral Science Core	3
CHEF 1164	1
IFWA 1210	2
<hr/>	
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
First Semester	
HAMG 2301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3
RSTO 1304	3
HAMG 2307	3
	16
Second Semester	
HAMG 2332	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 2337	3
HAMG 1213	2
	17
Third Semester	
HAMG 2167	1
HAMG 2305	3
	4

Culinary Arts Certificate

Subject	Semester Hours
First Semester	
CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3
PSTR 1301	3
	13
Second Semester	
CHEF 1345	3
CHEF 2231	2
CHEF 1302	3
HAMG 1319	3
IFWA 1210 or BIOL 1322	2
	13
Third Semester	
CHEF 1314	3
RSTO 1304	3
PSTR 2331	3
CHEF 1310	3
CHEF 1164	1
	13

Basic Culinary Skills Certificate

Subject	Semester Hours
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First Semester

CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
PSTR 1301	3
EDU 1300/PSYC 1300	3
<hr/>	
	13

Second Semester

CHEF 1345	3
CHEF 1310	3
CHEF 2231	2
RSTO 1304	3
POFT 1120	1
<hr/>	
	12

Catering and Event Planning Certificate

Subject	Semester Hours
First Semester	
TRVM 2333	3
CHEF 1205	2
TRVM 1327	3
CHEF 1301	3
HAMG 1340	3
<hr/>	
	14
Second Semester	
RSTO 2307	3
CHEF 2231	2
CHEF 1310	3
FDST 2433	4
POFT 1120	1
<hr/>	
	13

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I
- BIOL 1307/1107 Biology for Science Majors II
- BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

IFWA 1210 - Nutrition and Menu Planning

Application of principles of nutrition in planning menus for the food service industry.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 1.0

Computer Technology

IMED 1301 - Introduction to Multimedia

Basic skills for preparing graphic and projected presentations. Preparation and presentation of multimedia training session developed by students using popular multimedia software packages

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Prerequisites:

- [ARTC 1325](#) - Introduction to Computer Graphics
 - [ITSC 1305](#) - PC Operating Systems
-

IMED 1305 - Multimedia Authoring I

Introduction in multimedia development with an icon based development tool. Topic includes interactivity, branching, navigation, and interface/information design using industry standard authoring software.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

IMED 1316 - Internet Web Page Design I

Planning, designing, and deploying a Web Site from the World Wide Web perspective. Topics include but are not limited to HTML, XHTML, SGML, VRML, CGI, and JAVA scripts. (RM)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Web Based Small Business Development

Overview

Helping small businesses develop their presence in the electronic marketplace is the focus of this unique program. Students learn the skills necessary to manage a small business, oftentimes a home-based business. This program includes courses in Web Design Tools, Interface Design, Advanced Database, and Project Analysis & Design as well as courses in Marketing, Economics, Business, Computer Science, and communication.

Students can complete three levels of training:

- Web Based Small Business Foundation Certificate (18 credit hours)
- Web Based Small Business Development Certificate (34 credit hours)
- Web Based Small Business Development Associate of Applied Science Degree (60 credit hours)

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
COSC 1336	3
Mathematics/Life & Physical Science Core	3
MRKG 1200	2
BUSI 1301	3
ENGL 1301	3
	14
Second Semester	
BCIS 1305	3
BUSG 1302	3
IMED 1341	3
MRKG 1311	3
IMED 1316	3
	15
Third Semester	
COSC 1437	4
ECON 2301 or 2302	3
ITSW 1307	3
MRKG 1302	3
IMED 2315	3
	16
Fourth Semester	
BUSG 2309	3
Lang, Phil, Culture/Creative Arts Core	3

ITSW 2337 or ITSE 2309	3
MRKG 2333	3
IMED 2313 (Capstone)	3
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Certificate Degree Requirements

Web Based Small Business Development Certificate

Subject	Semester Hours
First Semester	
COSC 1336	3
MRKG 1311	3
IMED 1341	3
BUSI 1301	3
IMED 1316	3
<hr/>	
	15
Second Semester	
BCIS 1305	3
BUSG 1302	3
ITSW 1307	3
MRKG 1302	3
IMED 2313 (Capstone)	3
BUSG 2309	3
<hr/>	
	18

Web Based Small Business Foundation Certificate

Subject	Semester Hours
First Semester	
COSC 1336	3
MRKG 1311	3
IMED 1341	3
BUSI 1301	3
IMED 1316	3
IMED 1341	3
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Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

IMED 1341 - Interface Design

Skill development in the interface design process including selecting interfaces relative to a project's content and delivery system. Emphasis on aesthetic issues such as iconography, screen composition, colors, and typography.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Technology

IMED 1341 - Interface Design

Skill development in the interface design process including selecting interfaces relative to a project's content and delivery system. Emphasis on aesthetic issues such as iconography, screen composition, colors. And typography

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

IMED 2301 - Instructional Design

An in-depth study of the instructional design process based on learning theories including evaluation of models and design examples. The student will follow the instructional design process to determine a project's content; produce an instructional multimedia project; and test and revise the project. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

IMED 2309 - Internet Commerce

An overview of the Internet as a marketing and sales tool with emphasis on developing a prototype for electronic commerce. Topics include database technology, creating web sites in order to collect information, performing on line transactions, and generating dynamic content. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Web Based Small Business Development

Overview

Helping small businesses develop their presence in the electronic marketplace is the focus of this unique program. Students learn the skills necessary to manage a small business, oftentimes a home-based business. This program includes courses in Web Design Tools, Interface Design, Advanced Database, and Project Analysis & Design as well as courses in Marketing, Economics, Business, Computer Science, and communication.

Students can complete three levels of training:

- Web Based Small Business Foundation Certificate (18 credit hours)
- Web Based Small Business Development Certificate (34 credit hours)
- Web Based Small Business Development Associate of Applied Science Degree (60 credit hours)

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
COSC 1336	3
Mathematics/Life & Physical Science Core	3
MRKG 1200	2
BUSI 1301	3
ENGL 1301	3
	14
Second Semester	
BCIS 1305	3
BUSG 1302	3
IMED 1341	3
MRKG 1311	3
IMED 1316	3
	15
Third Semester	
COSC 1437	4
ECON 2301 or 2302	3
ITSW 1307	3
MRKG 1302	3
IMED 2315	3
	16
Fourth Semester	
BUSG 2309	3

Lang, Phil, Culture/Creative Arts Core	3
ITSW 2337 or ITSE 2309	3
MRKG 2333	3
IMED 2313 (Capstone)	3
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	15

Certificate Degree Requirements

Web Based Small Business Development Certificate

Subject	Semester Hours
First Semester	
COSC 1336	3
MRKG 1311	3
IMED 1341	3
BUSI 1301	3
IMED 1316	3
<hr/>	
	15
Second Semester	
BCIS 1305	3
BUSG 1302	3
ITSW 1307	3
MRKG 1302	3
IMED 2313 (Capstone)	3
BUSG 2309	3
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	18

Web Based Small Business Foundation Certificate

Subject	Semester Hours
First Semester	
COSC 1336	3
MRKG 1311	3
IMED 1341	3
BUSI 1301	3
IMED 1316	3
IMED 1341	3
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Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

IMED 2313 - Project Analysis and Design

Application of the planning and production processes for digital media projects. Emphasis on copyright and other legal issues, content design and production management. Capstone Course.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Computer Technology

IMED 2313 - Project Analysis and Design

Application of the planning and production processes for digital media projects. Emphasis on copyright and other legal issues, content design and production management.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

IMED 2315 - Web Page Design II

A study of hypertext mark-up language (HTML) and interesting layout techniques for creating and engaging well designed web pages. Emphasis on identifying the target audience and producing a web site according to physical and technical limitations, cultural appearance, and legal issues.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Advanced Manufacturing

Overview

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303	3
EDUC 1300	3
Social Behavioral Sciences Core	3
MATH 1332	3
	12
Second Semester	
MCHN 1320	3
ELPT 1311	3
MCHN 1302	3
ENGL 2311	3
Lang, Phil, Culture/Arts Core	3
	15
Third Semester	
MCHN 1371	3
QCTC 1343	3
AS Life & Phys Science Core	3
AS Life & Phys Science Core Lab	1
MCHN 1438	4
	14
Fourth Semester	
ELPT 2319	3
MCHN 1326	3
INMT 1391	3
	9
Fifth Semester (May Mini & Summer)	
ELPT 1441	4
INMT 2688	6
	10

Notes and Content

Notes and Content

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
First Semester	
TECH 1303 Technical Calculations	3
	3
Second Semester	
MCHN 1320 Prec Tools & Measure	3

	3
Third Semester	
ELPT 1311 Basic Electrical Theory	3
MCHN 1302 Print Rdng for Mchn	3
	6
Fourth Semester	
MCHN 1371 MSSC Local Needs	3
QCTC 1343 Quality Assurance	3
	6
Fifth Semester	
MCHN 1438 Basic Mch Shop I	4
	4
Sixth Semester	
ELPT 2319 PLC'S I	3
MCHN 1326 CAM	3
	6
Seventh Semester (May Mini & Summer)	
INMT 1391 Spec Top in Mfg Technology	3
ELPT 1441 Motor Controls	4
INMT 2688 Internship Mfg Tech	6
	13

Notes and Content

Notes and Content

INMT 1391 - Special Topics in Manufacturing Technology

Topics address recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

INMT 2688 - Internship- Manufacturing Technology/Technician

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 6.0

Lab hours: 20.0

Reading

INRW 0115 - Integrated Reading and Writing Lab

This lab is an individualized learning program for students who have not passed the reading or writing portion of the college assessment test and have specialized environment and/or time constraints. Assignments will include reading and writing activities and may include computer-assisted instruction.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Restrictions:

- Students must make satisfactory reading and/or writing progress to repeat this option.

INRW 0310 - Integrated Reading and Writing I

This is a combined lecture/lab, performance-based course designed to develop students' critical reading and academic writing skills. The course emphasizes critical reading and writing skills, including organizing, analyzing, and retaining material and developing written work that addresses audience, purpose, situation, and length of assignment. The course emphasizes close reading of texts and frequent writing assignments.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- This is an entry-level course with a required lab for students who are not TSI complete in reading and/or writing.

English

Overview

For students interested in pursuing an English degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
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16	

Second Semester

History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
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	14

Third Semester

GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
<hr/>	<hr/>
	15

Fourth Semester

GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
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	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab
 BIOL 1108 Biology for Non-Science Majors I Lab
 BIOL 1109 Biology for Non-Science Majors II Lab
 BIOL 2101 Anatomy & Physiology Laboratory I
 BIOL 2102 Anatomy & Physiology Laboratory II
 BIOL 2120 Microbiology for Non-Science Majors Laboratory I
 BIOL 2121 Microbiology for Non-Science Majors Laboratory II
 CHEM 1111 General Chemistry I Lab
 CHEM 1112 General Chemistry II Lab
 COSC 1301 Introduction to Computing
 COSC 1336 Programming Fundamentals I
 GEOL 1101 Earth Sciences Lab I
 GEOL 1103 Physical Geology Lab
 GEOL 1104 Historical Geology Lab
 GEOL 1105 Environmental Geology Lab
 PHYS 1101 College Physics Laboratory I (lab)
 PHYS 1102 College Physics Laboratory II (lab)
 PHYS 1103 Stars and Galaxies Laboratory (lab)
 PHYS 1104 Solar System Laboratory (lab)
 PHYS 1115 Physical Science Laboratory I (lab)
 PHYS 2125 University Physics Lab I
 PHYS 2126 University Physics Lab II
 SPAN 1411 Beginning Spanish I
 SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

INSR 0310 - Integrated Reading and Writing I.

This is a combined lecture/lab, performance based course designed to develop students' critical reading and academic writing skills. The focus of the course will be applying critical reading skills for organizing, analyzing, and retaining material and developing written work appropriate to audience, purpose, situation, and length of assignment. The course integrates preparation in basic academic reading skills with basic skills in writing a variety of academic essays.

Upon completion, students will be able to:

- The course will emphasize close reading of the texts, and there will be frequent writing assignments.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- This is a course with a required lab. (Entry-level course for students who are not TSI complete in reading and/or writing.)

INRW 0315 - Integrated Reading and Writing I

Critical reading and academic writing skills. The intervention fulfills TSI requirements for reading and/or writing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0
Restrictions:

- This is a NCBO course, which is non-semester-length, non-course competency-based option and intervention.
-

Reading

INRW 0315 - Integrated Reading and Writing I

This is a NCBO (non-course based option), a non-semester length, competency-based option. Assignments emphasize critical reading and academic writing skills, including organizing, analyzing and retaining material and developing written work. This NCBO emphasizes close reading of texts and frequent writing assignments that address audience, purpose, situation and length of assignment. Instructor-recommended early completion of the course fulfills TSI requirements for reading and/or writing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Restrictions:

- Instructor-recommended early completion of this NCBO fulfills TSI requirements for reading and writing.
-

INRW 0320 - Integrated Reading and Writing II

This exit-level course is a combined lecture/lab, performance-based course. The course emphasizes and provides further development of critical reading and writing skills, including organizing, analyzing and retaining material and developing written work that addresses audience, purpose, situation and length of assignment. The course emphasizes close reading of texts and frequent writing assignments. Successful completion of this course fulfills TSI requirements for reading and/or writing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 3.0
Restrictions:

- This is an exit-level course with required lab for students who have successfully completed the entry-level course.
-

English

Overview

For students interested in pursuing an English degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	14
Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
	15
Fourth Semester	
GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOVI 1301 Introductory Sociology
SOVI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

INRW 0320 - Integrated Reading and Writing II

This is a combined lecture/lab, performance based course designed to enhance students' critical reading and academic writing skills. The focus of the course will be applying critical reading skills for organizing, analyzing, and retaining material and developing written work appropriate to audience, purpose, situation, and length of assignment. The course integrates preparation in basic academic reading skills with basic skills in writing a variety of academic essays.

Upon completion, students will be able to:

- See Course Description

Grade Basis: AL

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Restrictions:

- This is a course with a required lab. (Exit level course for satisfying TSI completion in reading and writing.)
-

INRW 0325 - Integrated Reading and Writing II

Critical reading and academic writing skills. The intervention fulfills TSI requirements for reading and/or writing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: AL

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Reading

INRW 0325 - Integrated Reading and Writing II

This exit-level NCBO (non-course based option) is a non-semester length, competency-based option. Assignments emphasize critical reading and academic writing skills, including organizing, analyzing and retaining material and developing written work that addresses audience, purpose, situation and length of assignment. The NCBO emphasizes close reading of texts and frequent writing assignments. Successful completion of this NCBO fulfills TSI requirements for reading and/or writing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Banking

Overview

The Business and Management Department at Grayson College offers two certificates related to Banking: General Banking and Bank Operations. Both are designed to prepare students for employment in the various aspects of the banking industry. The certificates may also be used by people in the banking industry to hone or expand required skills.

Course Requirements

Grayson College requires that you have a high school diploma or equivalent. The certificates are TSI exempt.

Capstone Experience

Graduation with either the General Banking or Bank Operations Certificates requires successful completion of a Capstone Course.

Certificate Degree Requirements

General Banking Certificate

Subject	Semester Hours
ACCT 2301	4
BUSG 2309	3
MRKG 1311	3
BNKG 1366 or 1391	3
INSR 1351	3
AGMG 1311	3
BNKG 1303 (Capstone)	3
	<hr/> 22

Enroll in BNKG 1303 during the semester you plan to complete the certificate.

Bank Operations Certificate

Subject	Semester Hours
Completion of General Banking Certificate Plus:	22
ACCT 2302	4
BNKG 1443	4
BMGT 1305	3
BUSI 1311 or MRKG 2333	3
BUSG 1303 or MRKG 1302	3
BNKG 1340	3
	<hr/> 20
Total for both certificates	42

Enroll in BNKG 1340 during the semester you plan to complete the certificate

INSR 1351 - Essentials of Risk Management

Study of the risk management decision-making process. Emphasis on identification and analysis of loss exposures and development of alternative techniques for the treatment of each exposure.

Upon completion, students will be able to:

- Emphasis on identification and analysis of loss exposures and development of alternative techniques

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 2.0

Welding

Overview

The Welding Program will prepare you for most of the basic welding processes to join such metals as carbon, aluminum, and stainless steel, which will provide you with the information and training to step directly into employment. The program will also prepare you for many types of employment related to welding, such as engineering, quality control, manufacturing technician, etc.

Grayson College offers an Associate of Applied Science degree and two certificate of completions that train students in **Combination Welding** and **Structural Welding**.

Many of the Welding courses may be taken for non-credit through the College's Continuing Education division. Classes are available on the Main Campus and the South Campus.

Course Requirements

The Associate Degree, the Structural Welder Certificate and the Combination Welder Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have completed the TSI requirements.

Capstone Experience

Graduation with the Associate of Applied Science Degree in Welding or the completion of the Combination or Structural Welding Certificate requires successful completion of a Comprehensive Exit Exam.

Local Employers

ACS, B-Line, Caterpillar, Champion Cooler, Custom Bodies, Dutec Magna-Fab, Meuller Construction, Progress Rail, Plyler Construction, Weld-Co

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
WLDG 1421	4
WLDG 1428	4
DFTG 1309	3
MATH 1332	3
	14
Second Semester	
WLDG 1457	4
WLDG 1430	4
Life, Phil, Culture/Creative Arts Core	3
BUSI 2309	3
	14
Third Semester	
WLDG 1434	4
DFTG 1325	3
WLDG 2447	4
ENGL 1301	3
Social & Behavioral Science	3
	18
Fourth Semester	
WLDG 2451	4
WLDG 2406	4
SPCH 1321	3
Elective	3
	14

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Certificate Degree Requirements

Welding—Combination Welder Certificate

Subject	Semester Hours
First Semester	
WLDG 1421	4
WLDG 1428	4
	8
Second Semester	
WLDG 1457	4
WLDG 1430	4
	8
Third Semester	
WLDG 1434	4
WLDG 2406	4
DFTG 1325	3
	11
Fourth Semester	
WLDG 2451	4
WLDG 2447	4
	8

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Welding—Structural Certificate

Subject	Semester Hours
First Semester	
WLDG 1421	3
WLDG 1428	3
	15
Second Semester	
WLDG 1430	3
WLDG 1457	3
	15

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I
- BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

WLDG 2406 - Intermediate Pipe Welding

A Comprehensive course on the welding of pipe using shielded metal arc welding (SMAW) and/or other processes. Welds will be done using various positions. Topics covered include electrode selection, equipment setup, and safe shop practices.

Upon completion, students will be able to:

- Describe equipment and required preparation; perform welds using various positions.

Grade Basis: L
Credit hours: 4.0
Lab hours: 2.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

GC offers an **Associate of Applied Science degree in Computer Maintenance and Networking** which is the culmination of the certificates along with the core curriculum to produce a well-rounded employee. The Grayson College training offers the following Certificates of Completion options:

Computer Network Administration prepares the student to pass the Microsoft Certified System Administrator exams. This program covers basic networking fundamentals, LINUX, Microsoft Operating Systems, and server administration. Students will also be qualified to take the A+ and Network+ exams.

Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a

comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
First Semester	
ENGL 1301	3
CPMT 1303	3
Elective*	3
ITNW 1325	3
CPMT 1311	3
	15
Second Semester	
ITNW 1354	3
CPMT 2350	3
CPMT 1345	3
Elective*	3
Mathematics/Life & Physical Science Core	3
	15
Third Semester	
ITSY 1300	3
ITNW 1351	3
Elective*	3
Language, Philosophy, Culture/Creative Arts	3
	15
Fourth Semester	
CPMT 2345	3
CPMT 1349	3
Elective*	3
ITSC 1316	3
Social & Behavioral Science Core	3
	15

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration	
Subject	Semester Hours

First Semester

ITSY 1300	3
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
<hr/>	
	12

Second Semester

ITSC 2339	3
CPMT 2350	3
CPMT 1345	3
ITSC 1416	4
<hr/>	
	13

Third Semester

ITNW 1354	3
ITNW 1308	3
<hr/>	
	6

Fourth Semester

CPMT 1349	3
CPMT 2345	3
ITNW 2305	3
<hr/>	
	9

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
First Semester	
EECT 1407	4
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
<hr/>	
	13
Second Semester	
CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
ITSC 1416	4
<hr/>	
	13
Third Semester	
ITNW 1354	3
ITSY 1300	3
<hr/>	
	6
Fourth Semester	
CPMT 1349	3
ITNW 2305	3
CPMT 2345	3
<hr/>	
	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
First Semester	
CPMT 1303	3
CPMT 1311	3
ITNW 1325	3
	9
Second Semester	
CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCJ 1301 Introduction to Sociology
SOCJ 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITNW 1308 - Implementing and Supporting Client Operating Systems

Skills development in the management of client desktop operating systems.
Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

ITNW 1325 - Fundamentals of Networking Technologies

Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software for local, wireless, and wide area networking. Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 2.0

Computer Technology

ITNW 1325 - Fundamentals of Networking Technologies

Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 2.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

GC offers an **Associate of Applied Science degree in Computer Maintenance and Networking** which is the culmination of the certificates along with the core curriculum to produce a well-rounded employee. The Grayson College training offers the following Certificates of Completion options:

Computer Network Administration prepares the student to pass the Microsoft Certified System Administrator exams. This program covers basic networking fundamentals, LINUX, Microsoft Operating Systems, and server administration. Students will also be qualified to take the A+ and Network+ exams.

Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
First Semester	
ENGL 1301	3
CPMT 1303	3
Elective*	3
ITNW 1325	3
CPMT 1311	3
	15
Second Semester	
ITNW 1354	3
CPMT 2350	3
CPMT 1345	3
Elective*	3
Mathematics/Life & Physical Science Core	3
	15
Third Semester	
ITSY 1300	3
ITNW 1351	3
Elective*	3
Language, Philosophy, Culture/Creative Arts	3
	15
Fourth Semester	
CPMT 2345	3
CPMT 1349	3
Elective*	3
ITSC 1316	3
Social & Behavioral Science Core	3
	15

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration

Subject	Semester Hours
First Semester	
ITSY 1300	3
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
<hr/>	
12	
<hr/>	
Second Semester	
ITSC 2339	3
CPMT 2350	3
CPMT 1345	3
ITSC 1416	4
<hr/>	
13	
<hr/>	
Third Semester	
ITNW 1354	3
ITNW 1308	3
<hr/>	
6	
<hr/>	
Fourth Semester	
CPMT 1349	3
CPMT 2345	3
ITNW 2305	3
<hr/>	
9	

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
First Semester	
EECT 1407	4
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
<hr/>	
13	
<hr/>	
Second Semester	
CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
ITSC 1416	4
<hr/>	
13	
<hr/>	
Third Semester	
ITNW 1354	3
ITSY 1300	3
<hr/>	
6	
<hr/>	
Fourth Semester	
CPMT 1349	3

ITNW 2305	3
CPMT 2345	3
<hr/>	
	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
First Semester	
CPMT 1303	3
CPMT 1311	3
ITNW 1325	3
<hr/>	
	9
Second Semester	
CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
<hr/>	
	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I
- BIOL 1307/1107 Biology for Science Majors II
- BIOL 1308/1108 Biology for Non-Science Majors I
- BIOL 1309/1109 Biology for Non-Science Majors II
- BIOL 1414 Introduction to Biotechnology I
- BIOL 2301/2101 Anatomy & Physiology I
- BIOL 2302/2102 Anatomy & Physiology II
- BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
- BIOL 2320/2120 Microbiology for Non-Science Majors
- BIOL 2321/2121 Microbiology for Science Majors
- CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
- CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITNW 1351 - Fundamentals of Wireless LANs

Designing, planning, implementing, operating, and troubleshooting wireless LANs (WLANs). Includes WLAN design, installation, and configuration; and WLAN security issues and vendor interoperability.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ITNW 1354 - Implementing and Supporting Servers

Implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Technology

ITNW 1392 - Special Topics in Computer Systems/Networking and Telecommunications

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

GC offers an **Associate of Applied Science degree in Computer Maintenance and Networking** which is the culmination of the certificates along with the core curriculum to produce a well-rounded employee. The Grayson College training offers the following Certificates of Completion options:

Computer Network Administration prepares the student to pass the Microsoft Certified System Administrator exams. This program covers basic networking fundamentals, LINUX, Microsoft Operating Systems, and server administration. Students will also be qualified to take the A+ and Network+ exams.

Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
First Semester	
ENGL 1301	3
CPMT 1303	3
Elective*	3
ITNW 1325	3
CPMT 1311	3
	15
Second Semester	
ITNW 1354	3
CPMT 2350	3
CPMT 1345	3
Elective*	3
Mathematics/Life & Physical Science Core	3
	15
Third Semester	
ITSY 1300	3
ITNW 1351	3
Elective*	3
Language, Philosophy, Culture/Creative Arts	3
	15
Fourth Semester	
CPMT 2345	3
CPMT 1349	3
Elective*	3
ITSC 1316	3
Social & Behavioral Science Core	3
	15

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration	
Subject	Semester Hours
First Semester	
ITSY 1300	3
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
	12
Second Semester	
ITSC 2339	3
CPMT 2350	3
CPMT 1345	3
ITSC 1416	4
	13
Third Semester	
ITNW 1354	3
ITNW 1308	3
	6
Fourth Semester	
CPMT 1349	3
CPMT 2345	3
ITNW 2305	3
	9

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician	
Subject	Semester Hours
First Semester	
EECT 1407	4
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
	13
Second Semester	
CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
ITSC 1416	4
	13
Third Semester	

ITNW 1354	3
ITSY 1300	3
<hr/>	
	6

Fourth Semester

CPMT 1349	3
ITNW 2305	3
CPMT 2345	3
<hr/>	
	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
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First Semester

CPMT 1303	3
CPMT 1311	3
ITNW 1325	3
<hr/>	
	9

Second Semester

CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
<hr/>	
	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITNW 2305 - Network Administration

Topics include network components, user accounts and groups, network file systems, file system security, and network printing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Technology

ITNW 2305 - Network Administration

Topics include network components, user accounts and groups, network file systems, file system security, and network printing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

Computer Technology

ITNW 2355 - Server Virtualization

An in-depth study of the installation, configuration, management and troubleshooting of a virtualized server environment.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

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Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
First Semester	
ENGL 1301	3
CPMT 1303	3
Elective*	3
ITNW 1325	3
CPMT 1311	3
	15
Second Semester	
ITNW 1354	3
CPMT 2350	3
CPMT 1345	3
Elective*	3
Mathematics/Life & Physical Science Core	3
	15
Third Semester	
ITSY 1300	3
ITNW 1351	3
Elective*	3
Language, Philosophy, Culture/Creative Arts	3
	15
Fourth Semester	
CPMT 2345	3

CPMT 1349	3
Elective*	3
ITSC 1316	3
Social & Behavioral Science Core	3
<hr/>	
	15

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration

Subject	Semester Hours
First Semester	
ITSY 1300	3
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
<hr/>	
	12
Second Semester	
ITSC 2339	3
CPMT 2350	3
CPMT 1345	3
ITSC 1416	4
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	13
Third Semester	
ITNW 1354	3
ITNW 1308	3
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	6
Fourth Semester	
CPMT 1349	3
CPMT 2345	3
ITNW 2305	3
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	9

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
First Semester	
EECT 1407	4
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
<hr/>	
	13
Second Semester	

CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
ITSC 1416	4
<hr/>	
	13

Third Semester

ITNW 1354	3
ITSY 1300	3
<hr/>	
	6

Fourth Semester

CPMT 1349	3
ITNW 2305	3
CPMT 2345	3
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	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
First Semester	
CPMT 1303	3
CPMT 1311	3
ITNW 1325	3
<hr/>	
	9
Second Semester	
CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
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	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I
- BIOL 1307/1107 Biology for Science Majors II
- BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSC 1305 - PC Operating Systems

Introduction to personal computer operating systems including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Computer Technology

ITSC 1305 - PC Operating Systems

A study of personal computer operating systems. Topics include installation and configuration, file management, memory and storage management, control of peripheral devices, and use of utilities. (Operating system software utilization for standard microcomputer hardware systems. Basic knowledge, theory and applications to create and manage files and data, run programs, and use utilities. General theory of many different systems will be presented. Applicable areas of computer science affecting microcomputer hardware programs will be included to provide substantial literacy for users not conversant in operating systems technology.)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

ITSC 1309 - Integrated Software Applications

Introductory course using microcomputers to conduct professional activities and solve business problems. Integration of applications from popular business productivity software suites. Instruction in embedding data, linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software. Hands-on training using components of the Microsoft Office applications software packages (Word/Excel/Access). Study of hardware and software components of microcomputer, function of operating systems, security, computer purchase, office layout, computer graphics, data communications, presentation graphics, and desktop publishing will be included.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

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Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject	Semester Hours
First Semester	
ENGL 1301	3
CPMT 1303	3
Elective*	3
ITNW 1325	3
CPMT 1311	3
<hr/>	
15	
Second Semester	
ITNW 1354	3
CPMT 2350	3
CPMT 1345	3

Elective*	3
Mathematics/Life & Physical Science Core	3
	15

Third Semester

ITSY 1300	3
ITNW 1351	3
Elective*	3
Language, Philosophy, Culture/Creative Arts	3
	15

Fourth Semester

CPMT 2345	3
CPMT 1349	3
Elective*	3
ITSC 1316	3
Social & Behavioral Science Core	3
	15

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration

Subject	Semester Hours
First Semester	
ITSY 1300	3
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
	12
Second Semester	
ITSC 2339	3
CPMT 2350	3
CPMT 1345	3
ITSC 1416	4
	13
Third Semester	
ITNW 1354	3
ITNW 1308	3
	6
Fourth Semester	
CPMT 1349	3
CPMT 2345	3
ITNW 2305	3
	9

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
First Semester	
EECT 1407	4
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
	13
Second Semester	
CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
ITSC 1416	4
	13
Third Semester	
ITNW 1354	3
ITSY 1300	3
	6
Fourth Semester	
CPMT 1349	3
ITNW 2305	3
CPMT 2345	3
	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs

Computer Support Technician

Subject	Semester Hours
First Semester	
CPMT 1303	3
CPMT 1311	3
ITNW 1325	3
	9
Second Semester	
CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSC 1316 - Linux Installation and Configuration

Introduction to Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking security, and application installation. Emphasizes hands-on setup, administration, and management of Linux.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 4.0

Lab hours: 2.0

Computer Technology

ITSC 1325 - Personal Computer Hardware

A study of current personal computer hardware including personal computer assembly and upgrading, setup and configuration, and troubleshooting. Designing microcomputer system for business or home and isolating problems. Intermediate subjects include putting together hardware, installing hard drive and operating system, and installing and customizing popular application software. Prerequisite: sophomore standing or consent of division dean. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Computer Technology

ITSC 1342 - Shell Programming

Reading, writing, and debugging shell scripts. Development of scripts to automate frequently executed sequences of commands. Covers conditional logic, user interaction, loops, and menus to enhance the productivity and effectiveness of the user. Intended for programmers who are familiar with operating environments and reading and writing various shell scripts.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Computer Technology

ITSC 1391 - Special Topics in CIS

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Current developments in the rapidly changing field of computer information systems are studied. Course may be repeated for credit when topics vary.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Restrictions:

- Will vary based on topics covered and will be annotated in each semester's class schedule
 - Lab required
-

ITSC 1407 - UNIX Operating System I

A study of the UNIX operating system including multiuser concepts, terminal emulation, use of system editor, basic UNIX commands, and writing script files. Topics include introductory systems management concepts. Transition from MS-DOS to UNIX. Basics of the UNIX operating system, shells, editor, windowing programs (X-Windows and Motif) will provide knowledge of powerful operating system. May include connectivity issues with Windows NT, OS/2 or other operating system. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

ITSC 1416 - Linux Installation and Configuration

Open-source Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking, security, and application installation. Emphasizes hands-on setup, administration, and management of Linux. Also covers maintaining and securing reliable Linux systems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 3.0

Prerequisites:

- [CPMT 1345](#) - Computer Systems Maintenance
 - [ITSC 1305](#) - PC Operating Systems
-

ITSC 1491 - Directed Research and Industry Certification

The student and instructor will develop a written competency-based learning plan with varied learning objectives based upon chosen specialty. Objectives will allow the student to specialize in software packages through in-depth hands-on and theoretical experience. Goal to prepare student for industry certification exams to be taken after graduation. Student and instructor must develop new learning objectives each semester in response to ever changing industry requirements. Capstone course should be taken during semester of graduation.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 3.0

Office and Computer Tech

Overview

The development and use of computers in the office has created a need for individuals who are proficient in areas beyond the traditional office skills. Today's office requires individuals who are able to take full advantage of the technology available in order to get the job done quickly and accurately.

The **Associate of Applied Science Degree in Office & Computer Technology** is designed to prepare individuals for the challenges of today's office. Students will obtain the skills and technical knowledge necessary to enter the job market in a variety of office administration positions. The college also offers several certificate options.

The **Administrative Assistant Certificate** and **Medical Administrative Assistant Certificate** prepares students for assisting an executive or professional in decision making, conducting research, meeting and working with the public, and managing the office. The certificates could also feed into the associate degree, if desired.

The **Accounting Office Support Certificate** prepares individuals for careers in the accounting field. This certificate will also feed into the Administrative Assistant certificate if the student desires to increase his or her knowledge in these areas.

The **Applications Software Specialist Certificate** concentrates on computer software used in the office. The student will have a strong working foundation of several software packages currently used in industry today. Software integration will be emphasized. This certificate provides an excellent opportunity for an employee with strong organizational skills who wants to specialize in computer software.

Course Requirements

Grayson County requires a high school diploma or equivalent. The Associate of Applied Science Degree requires successful completion of the TSI requirements. Some of the courses require prerequisites. Refer to the GC catalog for specific information.

Capstone Experience

Graduation with the Associate of Applied Science Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Development). This class must be taken during the semester of graduation.

Local Employers

Cigna, City of Denison, Douglass Distributing, Grayson College, Sherman ISD, Texoma Medical Center, Wilson N. Jones Hospital

AAS Degree Requirements

Associate of Applied Science - Office and Computer Technology

Subject	Semester Hours
First Semester	
ENGL 1301	3
POFT 1301	3
ACNT 1303	3
Social and Behavioral Science Core	3
<hr/>	
12	
Second Semester	
ACNT 1304	3
POFT 2312	3
POFI 1301	3
POFI 2301	3
POFT 2303 or ARTC 1325	3
<hr/>	
15	
Third Semester	
Math/Life and Physical Science Core	3
SPCH 1311 or 1321	3
Lang, Phil, Culture/Creative Arts Core	3
ITSW 1304	3
ITSC 2321	3
Elective	3
<hr/>	
18	
Fourth Semester	
POFT 2331	3
ACNT 1313	3
ITSW 1307	3
POFT 1313 (Capstone)	3
Elective	3
<hr/>	
15	

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Certificate Degree Requirements

Accounting Office Support Certificate

Subject	Semester Hours
First Semester	
POFI 1301	3
POFT 1301	2

POFT 2303	2
POFI 2301	3
ACNT 1303	3
ITSW 1304	3
<hr/>	
	18

Second Semester

ACNT 1304	3
ACNT 1313	3
ITSW 1307	3
POFT 2312	3
POFT 1313 (Capstone)*	3
POFT 2331	3
<hr/>	
	18

Administrative Assistant Certificate

Subject	Semester Hours
---------	----------------

First Semester

POFT 1301	3
POFI 2301	3
POFT 2303	2
ACNT 1303	3
<hr/>	
	12

Second Semester

POFT 2312	3
POFI 1301	3
ACNT 1304	3
POFT 2331	3
ITSW 1307	3
<hr/>	
	15

Third Semester

ITSW 1304	3
ITSC 2321	3
POFT 1313 (Capstone)*	3
ACNT 1313	3
Elective	3
<hr/>	
	15

Applications Software Specialist Certificate

Subject	Semester Hours
---------	----------------

First Semester

POFT 2303	3
POFT 1301	3
POFI 2301	3
ITSW 1304	3
ARTC 1325	3
<hr/>	
	15

Second Semester

ITSC 2321	3
POFT 2312	3
ITSW 1307	3
POFT 1313 (Capstone)*	3
POFI 1301	3

15

Medical Administrative Assistant Certificate

Subject	Semester Hours
---------	----------------

First Semester

POFT 1301	3
HITT 1305	3
POFT 2303	3
POFI 2301	3
POFI 1301	3

15

Second Semester

POFT 2312	3
ITSW 1304	3
HITT 1341	3
POFT 2331	3

12

Third Semester (Summer I)

HITT 1311	3
HITT 2346	3

6

Fourth Semester (Summer II)

HITT 1353	3
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3

Fifth Semester

POFT 1313 (Capstone)*	3
POFM 1317	3

6

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Marketable Skills Award

Accounting Office Support Marketable Skills Award

Subject	Semester Hours
---------	----------------

First Semester

POFI 1301	3
POFI 2301	3
ITSW 1304	3

9

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSC 2321 - Integrated Software Applications II

(FALL ONLY) Intermediate study of computer applications from business productivity software suites. Instruction in embedding data and linking and combining documents using word processing, spreadsheets, databases, and/or presentation software.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Computer Technology

ITSC 2321 - Integrated Software Applications II

(FALL ONLY). Intermediate study of computer applications from business productivity software suites. Instruction in embedding data and linking and combining documents using word processing, spreadsheets, databases, and/or presentation software.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Computer Technology

ITSC 2325 - Advanced Linux

Provides instruction in advance open-source Linux operating system. Develops directory services for clients, support users remotely, and install and configure network services.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Computer Technology

ITSC 2339 - Personal Computer Help Desk

Diagnosis and solution of user hardware and software related problems with hands-on and/or simulated projects. Also covers helpdesk management and performance metrics.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Web Based Small Business Development

Overview

Helping small businesses develop their presence in the electronic marketplace is the focus of this unique program. Students learn the skills necessary to manage a small business, oftentimes a home-based business. This program includes courses in Web Design Tools, Interface Design, Advanced Database, and Project Analysis & Design as well as courses in Marketing, Economics, Business, Computer Science, and communication.

Students can complete three levels of training:

- Web Based Small Business Foundation Certificate (18 credit hours)
- Web Based Small Business Development Certificate (34 credit hours)
- Web Based Small Business Development Associate of Applied Science Degree (60 credit hours)

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
COSC 1336	3
Mathematics/Life & Physical Science Core	3
MRKG 1200	2
BUSI 1301	3
ENGL 1301	3
	14
Second Semester	

BCIS 1305	3
BUSG 1302	3
IMED 1341	3
MRKG 1311	3
IMED 1316	3
<hr/>	
	15
<hr/>	
Third Semester	
COSC 1437	4
ECON 2301 or 2302	3
ITSW 1307	3
MRKG 1302	3
IMED 2315	3
<hr/>	
	16
<hr/>	
Fourth Semester	
BUSG 2309	3
Lang, Phil, Culture/Creative Arts Core	3
ITSW 2337 or ITSE 2309	3
MRKG 2333	3
IMED 2313 (Capstone)	3
<hr/>	
	15

Certificate Degree Requirements

Web Based Small Business Development Certificate

Subject	Semester Hours
<hr/>	
First Semester	
COSC 1336	3
MRKG 1311	3
IMED 1341	3
BUSI 1301	3
IMED 1316	3
<hr/>	
	15
<hr/>	
Second Semester	
BCIS 1305	3
BUSG 1302	3
ITSW 1307	3
MRKG 1302	3
IMED 2313 (Capstone)	3
BUSG 2309	3
<hr/>	
	18

Web Based Small Business Foundation Certificate

Subject	Semester Hours
<hr/>	
First Semester	
COSC 1336	3
MRKG 1311	3
IMED 1341	3
BUSI 1301	3
IMED 1316	3
IMED 1341	3

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSE 1301 - Web Design Tools

Designing and publishing Web documents according to World Wide Web Consortium (W3C) standards. Emphasis on optimization of graphics and images and exploration of the tools available for creating and editing Web documents.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ITSE 1301 - Database Programming.

Database development using database programming techniques emphasizing database structures, modeling, building reports and database access (SQL).

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Computer Technology

ITSE 2317 - JAVA Programming

Introduction to JAVA programming with object-orientation. Emphasis on the fundamental syntax and semantics of JAVA for applications and web applets

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 3.0

ITSE 2386 - Internship – Computer Programming/Programmer, General

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Office and Computer Tech

Overview

The development and use of computers in the office has created a need for individuals who are proficient in areas beyond the traditional office skills. Today's office requires individuals who are able to take full advantage of the technology available in order to get the job done quickly and accurately.

The **Associate of Applied Science Degree in Office & Computer Technology** is designed to prepare individuals for the challenges of today's office. Students will obtain the skills and technical knowledge necessary to enter the job market in a variety of office administration positions. The college also offers several certificate options.

The **Administrative Assistant Certificate** and **Medical Administrative Assistant Certificate** prepares students for assisting an executive or professional in decision making, conducting research, meeting and working with the public, and managing the office. The certificates could also feed into the associate degree, if desired.

The **Accounting Office Support Certificate** prepares individuals for careers in the accounting field. This certificate will also feed into the Administrative Assistant certificate if the student desires to increase his or her knowledge in these areas.

The **Applications Software Specialist Certificate** concentrates on computer software used in the office. The student will have a strong working foundation of several software packages currently used in industry today. Software integration will be emphasized. This certificate provides an excellent opportunity for an employee with strong organizational skills who wants to specialize in computer software.

Course Requirements

Grayson County requires a high school diploma or equivalent. The Associate of Applied Science Degree requires successful completion of the TSI requirements. Some of the courses require prerequisites. Refer to the GC catalog for specific information.

Capstone Experience

Graduation with the Associate of Applied Science Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Development). This class must be taken during the semester of graduation.

Local Employers

Cigna, City of Denison, Douglass Distributing, Grayson College, Sherman ISD, Texoma Medical Center, Wilson N. Jones Hospital

AAS Degree Requirements

Associate of Applied Science - Office and Computer Technology

Subject	Semester Hours
First Semester	
ENGL 1301	3
POFT 1301	3
ACNT 1303	3
Social and Behavioral Science Core	3
<hr/>	
12	
Second Semester	
ACNT 1304	3
POFT 2312	3
POFI 1301	3
POFI 2301	3
POFT 2303 or ARTC 1325	3
<hr/>	
15	
Third Semester	
Math/Life and Physical Science Core	3
SPCH 1311 or 1321	3
Lang, Phil, Culture/Creative Arts Core	3
ITSW 1304	3
ITSC 2321	3
Elective	3
<hr/>	
18	
Fourth Semester	
POFT 2331	3
ACNT 1313	3
ITSW 1307	3
POFT 1313 (Capstone)	3
Elective	3
<hr/>	
15	

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Certificate Degree Requirements

Accounting Office Support Certificate

Subject	Semester Hours
First Semester	
POFI 1301	3
POFT 1301	2

POFT 2303	2
POFI 2301	3
ACNT 1303	3
ITSW 1304	3
<hr/>	
	18

Second Semester

ACNT 1304	3
ACNT 1313	3
ITSW 1307	3
POFT 2312	3
POFT 1313 (Capstone)*	3
POFT 2331	3
<hr/>	
	18

Administrative Assistant Certificate

Subject	Semester Hours
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First Semester

POFT 1301	3
POFI 2301	3
POFT 2303	2
ACNT 1303	3
<hr/>	
	12

Second Semester

POFT 2312	3
POFI 1301	3
ACNT 1304	3
POFT 2331	3
ITSW 1307	3
<hr/>	
	15

Third Semester

ITSW 1304	3
ITSC 2321	3
POFT 1313 (Capstone)*	3
ACNT 1313	3
Elective	3
<hr/>	
	15

Applications Software Specialist Certificate

Subject	Semester Hours
---------	----------------

First Semester

POFT 2303	3
POFT 1301	3
POFI 2301	3
ITSW 1304	3
ARTC 1325	3
<hr/>	
	15

Second Semester

ITSC 2321	3
POFT 2312	3
ITSW 1307	3
POFT 1313 (Capstone)*	3
POFI 1301	3

15	
Medical Administrative Assistant Certificate	
Subject	Semester Hours
First Semester	
POFT 1301	3
HITT 1305	3
POFT 2303	3
POFI 2301	3
POFI 1301	3
15	
Second Semester	
POFT 2312	3
ITSW 1304	3
HITT 1341	3
POFT 2331	3
12	
Third Semester (Summer I)	
HITT 1311	3
HITT 2346	3
6	
Fourth Semester (Summer II)	
HITT 1353	3
3	
Fifth Semester	
POFT 1313 (Capstone)*	3
POFM 1317	3
6	

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Marketable Skills Award

Accounting Office Support Marketable Skills Award

Subject	Semester Hours
First Semester	
POFI 1301	3
POFI 2301	3
ITSW 1304	3
9	

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSW 1304 - Introduction to Spreadsheets

Instruction in the concepts, procedures, and application of electronic spreadsheets.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Computer Technology

ITSW 1304 - Introduction to Spreadsheet

Instruction in the concepts, procedures, and importance of electronic spreadsheets. Covers logic of spreadsheet command trees, information management and graphing systems, and formula development. In-depth study of the access system printing and graphing functions and file transfer. Covers macro design and development, statistical, financial, and other functions. Students will build spreadsheets using a popular spreadsheet software. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Office and Computer Tech

Overview

The development and use of computers in the office has created a need for individuals who are proficient in areas beyond the traditional office skills. Today's office requires individuals who are able to take full advantage of the technology available in order to get the job done quickly and accurately.

The **Associate of Applied Science Degree in Office & Computer Technology** is designed to prepare individuals for the challenges of today's office. Students will obtain the skills and technical knowledge necessary to enter the job market in a variety of office administration positions. The college also offers several certificate options.

The **Administrative Assistant Certificate** and **Medical Administrative Assistant Certificate** prepares students for assisting an executive or professional in decision making, conducting research, meeting and working with the public, and managing the office. The certificates could also feed into the associate degree, if desired.

The **Accounting Office Support Certificate** prepares individuals for careers in the accounting field. This certificate will also feed into the Administrative Assistant certificate if the student desires to increase his or her knowledge in these areas.

The **Applications Software Specialist Certificate** concentrates on computer software used in the office. The student will have a strong working foundation of several software packages currently used in industry today. Software integration will be emphasized. This certificate provides an excellent opportunity for an employee with strong organizational skills who wants to specialize in computer software.

Course Requirements

Grayson County requires a high school diploma or equivalent. The Associate of Applied Science Degree requires successful completion of the TSI requirements. Some of the courses require prerequisites. Refer to the GC catalog for specific information.

Capstone Experience

Graduation with the Associate of Applied Science Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Development). This class must be taken during the semester of graduation.

Local Employers

Cigna, City of Denison, Douglass Distributing, Grayson College, Sherman ISD, Texoma Medical Center, Wilson N. Jones Hospital

AAS Degree Requirements

Associate of Applied Science - Office and Computer Technology

Subject	Semester Hours
First Semester	
ENGL 1301	3
POFT 1301	3
ACNT 1303	3
Social and Behavioral Science Core	3
	12
Second Semester	
ACNT 1304	3
POFT 2312	3
POFI 1301	3
POFI 2301	3
POFT 2303 or ARTC 1325	3
	15
Third Semester	
Math/Life and Physical Science Core	3

SPCH 1311 or 1321	3
Lang, Phil, Culture/Creative Arts Core	3
ITSW 1304	3
ITSC 2321	3
Elective	3
	18

Fourth Semester

POFT 2331	3
ACNT 1313	3
ITSW 1307	3
POFT 1313 (Capstone)	3
Elective	3
	15

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Certificate Degree Requirements

Accounting Office Support Certificate

Subject	Semester Hours
First Semester	
POFI 1301	3
POFT 1301	2
POFT 2303	2
POFI 2301	3
ACNT 1303	3
ITSW 1304	3
	18
Second Semester	
ACNT 1304	3
ACNT 1313	3
ITSW 1307	3
POFT 2312	3
POFT 1313 (Capstone)*	3
POFT 2331	3
	18

Administrative Assistant Certificate

Subject	Semester Hours
First Semester	
POFT 1301	3
POFI 2301	3
POFT 2303	2
ACNT 1303	3
	12
Second Semester	
POFT 2312	3
POFI 1301	3

ACNT 1304	3
POFT 2331	3
ITSW 1307	3

15

Third Semester

ITSW 1304	3
ITSC 2321	3
POFT 1313 (Capstone)*	3
ACNT 1313	3
Elective	3

15

Applications Software Specialist Certificate

Subject	Semester Hours
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First Semester

POFT 2303	3
POFT 1301	3
POFI 2301	3
ITSW 1304	3
ARTC 1325	3

15

Second Semester

ITSC 2321	3
POFT 2312	3
ITSW 1307	3
POFT 1313 (Capstone)*	3
POFI 1301	3

15

Medical Administrative Assistant Certificate

Subject	Semester Hours
---------	----------------

First Semester

POFT 1301	3
HITT 1305	3
POFT 2303	3
POFI 2301	3
POFI 1301	3

15

Second Semester

POFT 2312	3
ITSW 1304	3
HITT 1341	3
POFT 2331	3

12

Third Semester (Summer I)

HITT 1311	3
HITT 2346	3

6

Fourth Semester (Summer II)

HITT 1353	3
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3

Fifth Semester

POFT 1313 (Capstone)*	3
POFM 1317	3
	<hr/> 6

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Marketable Skills Award

Accounting Office Support Marketable Skills Award

Subject	Semester Hours
First Semester	
POFI 1301	3
POFI 2301	3
ITSW 1304	3
	<hr/> 9

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSW 1307 - Introduction to Database

Introduction to database theory and the practical applications of a database.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Computer Technology

ITSW 1307 - Introduction to Database

Introduction to database theory and the practical applications of the database. Students learn to create, edit, and maintain an electronic filing system using a popular database management system software package. Students will also learn to create reports from several of the electronic files and to rapidly retrieve and manipulate data. Additional topics will include macros and structured query language. (R)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 3.0

Web Based Small Business Development

Overview

Helping small businesses develop their presence in the electronic marketplace is the focus of this unique program. Students learn the skills necessary to manage a small business, oftentimes a home-based business. This program includes courses in Web Design Tools, Interface Design, Advanced Database, and Project Analysis & Design as well as courses in Marketing, Economics, Business, Computer Science, and communication.

Students can complete three levels of training:

- Web Based Small Business Foundation Certificate (18 credit hours)
- Web Based Small Business Development Certificate (34 credit hours)
- Web Based Small Business Development Associate of Applied Science Degree (60 credit hours)

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
COSC 1336	3
Mathematics/Life & Physical Science Core	3
MRKG 1200	2
BUSI 1301	3
ENGL 1301	3
	14
Second Semester	
BCIS 1305	3
BUSG 1302	3
IMED 1341	3
MRKG 1311	3
IMED 1316	3
	15

Third Semester

COSC 1437	4
ECON 2301 or 2302	3
ITSW 1307	3
MRKG 1302	3
IMED 2315	3
<hr/>	
	16

Fourth Semester

BUSG 2309	3
Lang, Phil, Culture/Creative Arts Core	3
ITSW 2337 or ITSE 2309	3
MRKG 2333	3
IMED 2313 (Capstone)	3
<hr/>	
	15

Certificate Degree Requirements

Web Based Small Business Development Certificate

Subject	Semester Hours
First Semester	
COSC 1336	3
MRKG 1311	3
IMED 1341	3
BUSI 1301	3
IMED 1316	3
<hr/>	
	15
Second Semester	
BCIS 1305	3
BUSG 1302	3
ITSW 1307	3
MRKG 1302	3
IMED 2313 (Capstone)	3
BUSG 2309	3
<hr/>	
	18

Web Based Small Business Foundation Certificate

Subject	Semester Hours
First Semester	
COSC 1336	3
MRKG 1311	3
IMED 1341	3
BUSI 1301	3
IMED 1316	3
IMED 1341	3
<hr/>	
	18

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSW 2337 - Advanced Database

Advanced concepts of database design and functionality.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [ITSW 1307](#) - Introduction to Database

Computer Technology

ITSW 2383 - Cooperative Education - Management Information Systems and Business Data Process

An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a business or industry. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the college and that are directly related to specific occupational outcomes. This may be a paid or unpaid experience.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 5.0

Lab hours: 3.0

Restrictions:

- Sophomore standing or consent of instructor.

ITSW 2437 - Advanced Database

Advanced concepts of database design and functionality.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 3.0

Computer Maintenance and Networking Technology

Overview

Grayson College's program prepares students to support computers in a networked environment. Students become familiar with computer hardware, software and networking functionality, and will be prepared to take the COMPTIA, A+, Network+ and Server+ exams.

GC offers an **Associate of Applied Science degree in Computer Maintenance and Networking** which is the culmination of the certificates along with the core curriculum to produce a well-rounded employee. The Grayson College training offers the following Certificates of Completion options:

Computer Network Administration prepares the student to pass the Microsoft Certified System Administrator exams. This program covers basic networking fundamentals, LINUX, Microsoft Operating Systems, and server administration. Students will also be qualified to take the A+ and Network+ exams.

Computer Network Technician prepares students to pass the Network+ exam. This certificate covers basic networking fundamentals, LINUX, Windows 7, hardware devices and protocols. Students will also be qualified to take the A+ exam at the end of the second semester.

A+ Certificate Training for Computer Support Technician is a one-year program prepares that students for a career in the computer industry. It provides a comprehensive preparation for the A+ exam, an internationally recognized credential for computer maintenance technicians.

Students may also enroll in many of these courses through the College's Continuing Education division for non-credit experience and knowledge.

Course Requirements

The Computer Maintenance & Networking Technology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Science Degree requires that you have met the TSI requirements.

Capstone Experience

Graduation with a Associate of Applied Science Degree in the Computer Maintenance & Networking Technology program requires successful completion of a comprehensive capstone course. Graduation with the Computer Network Technician Certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive capstone course. And graduation with the Computer Support Technician Certificate requires the successful completion of COMPTIA's A+ exam or a comprehensive capstone course.

Local Employers

Gunter, McKinney, Sherman, Whitesboro School Districts; Texas Workforce Commission; Internet Texoma; Grayson College; Smartech; Ruiz Foods; Angels of Care; Alorica; GCEC

AAS Degree Requirements

Associate of Applied Science

Subject

Semester Hours

First Semester

ENGL 1301	3
CPMT 1303	3
Elective*	3
ITNW 1325	3
CPMT 1311	3
	15
Second Semester	
ITNW 1354	3
CPMT 2350	3
CPMT 1345	3
Elective*	3
Mathematics/Life & Physical Science Core	3
	15
Third Semester	
ITSY 1300	3
ITNW 1351	3
Elective*	3
Language, Philosophy, Culture/Creative Arts	3
	15
Fourth Semester	
CPMT 2345	3
CPMT 1349	3
Elective*	3
ITSC 1316	3
Social & Behavioral Science Core	3
	15

Degree: Associate of Applied Science Degree in Computer Maintenance and Networking Technology.

Capstone Experience: Graduation with the Associate of Applied Science Degree requires the successful completion of a comprehensive exit exam administered by the Computer Maintenance and Networking Technology Department.

*Approved Electives: EECT 1407, ITNW 1308, ITNW 1354, ITNW 2305, ITSC 1305, ITSW 1307, EECT 1303, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, COSC 1337, COSC 2336, COSC 2330, IMED 1316, IMED 2315, CPMT 1391, ITSC 2339, ITSC 1309.

Certificate Degree Requirements

2 Year Certificate Programs

Computer Network Administration	
Subject	Semester Hours
First Semester	
ITSY 1300	3
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
	12
Second Semester	
ITSC 2339	3
CPMT 2350	3
CPMT 1345	3
ITSC 1416	4
	13

Third Semester

ITNW 1354	3
ITNW 1308	3
	6

Fourth Semester

CPMT 1349	3
CPMT 2345	3
ITNW 2305	3
	9

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Computer Network Technician

Subject	Semester Hours
First Semester	
EECT 1407	4
CPMT 1311	3
ITNW 1325	3
CPMT 1303	3
	13
Second Semester	
CPMT 2350	3
CPMT 1345	3
ITSC 2339	3
ITSC 1416	4
	13
Third Semester	
ITNW 1354	3
ITSY 1300	3
	6
Fourth Semester	
CPMT 1349	3
ITNW 2305	3
CPMT 2345	3
	9

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's Network+ exam or a comprehensive exit exam administered by the Computer Maintenance and Networking Technology faculty.

1 year Certificate Programs**Computer Support Technician**

Subject	Semester Hours
First Semester	
CPMT 1303	3
CPMT 1311	3
ITNW 1325	3
	9
Second Semester	
CPMT 2350	3
CPMT 1345	3
ITSC 2339	3

Capstone experience: Graduation with this certificate requires the successful completion of COMPTIA's A+ exam, or a comprehensive exit exam administered by the Computer Maintenance Technology faculty.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCl 1301 Introduction to Sociology
SOCl 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

ITSY 1300 - Fundamentals of Information Security

An introduction to Information security including vocabulary and terminology, ethics, the legal environment and risk management. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning, policies and controls is discussed.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

ITSY 2317 - Wireless Security Development

Development of information security policies, standards, and guidelines for an organization. Includes Demilitarized Zone (DMZ), antivirus, Virtual Private Network (VPN), wireless communications, remote access, and other critical administrative and operational security policies. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. Emphasizes wireless security goals of availability, integrity, accuracy, and confidentiality in the design, planning, implementing, operating, and troubleshooting of wireless LAN along with appropriate planning and administrative controls.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0

Computer Technology

ITSY 2343 - Computer System Forensics

In-depth study of system forensics including methodologies used for analysis of computer security breaches. Gather and evaluate evidence to perform postmortem analysis of a security breach.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 2.0

Learning Skills

LSKL 0032 - Non-Course Based Remediation

Non-course based remediation designed for the developmental students seeking support for course work and/or assistance with test preparation. Intervention strategies include peer tutoring, multi-media instruction, and seminars. As in learning skills courses and labs, this non-course based remediation cannot substitute for the required course/lab in the specific skill area, i.e. reading, writing and math. To be arranged in time and format under the direction of LAC staff.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

LSKL 0115 - Learning Skills Laboratory I

Learning program designed for self-improvement in study skills and classroom learning strategies. Topics include note-taking, time-management, goal-setting, and test-taking. Teaching methods include workshops, discussion, multimedia instruction, and computerized learning styles analysis.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 1.0

LSKL 0215 - Learning Skills Laboratory II

Individualized learning program for self-improvement in study skills and classroom learning. Topics include note-taking, preparing for exams, goal-setting, and research paper skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lab hours: 2.0

LSKL 0300 - Learning Skills Laboratory II

Emphasis on coping with the demands of a college environment and developing classroom behaviors and study habits that lead to success. Topics covered include setting goals, managing time, handling stress, taking notes, marking textbooks, and passing exams.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lab hours: 3.0

Mathematics

Overview

Program Description

To paraphrase Galileo, "Mathematics is the language in which the laws of nature are written" and the laws of society and economics as well. In recent years, applications of mathematics have expanded far beyond the traditional boundaries of physics, chemistry, and engineering. Biologists, sociologists, economists, psychologists, and even historians and lawyers have reached out to mathematicians in their quest for indisputable conclusions and novel methods of investigation. Thus, pure and applied mathematicians are and always will be in demand.

Grayson College offers an Associate of Science in Mathematics. This program opens the door to an attractive future for students who want to prepare for careers in fields requiring a solid background in quantitative analysis, transfer to university, or to teach mathematics at various levels.

Program Mission Statement

The Department of Mathematics seeks to ensure that all students are given a basic understanding of mathematical reasoning and some experience of its application. More advanced techniques and interpretative skills are taught to those whose chosen disciplines require them. The Mathematics Department offers courses of study that initiate students into the active practice and use of mathematics. Mathematics majors are provided with the background necessary to pursue careers in industry, to teach in the secondary schools, or to succeed in further study.

Program Philosophy

It is the belief of the Mathematics staff of Grayson College that mathematics is one of the fundamental skills of learning. The basics of mathematics, along with other essential communication skills, are ingredients that cannot be excluded from any student's formal training. We recognize qualitative literacy as being necessary for survival in a rapidly changing technological society. It is therefore agreed that despite the differences that exist in learning potential or individual student's achievement, there are certain common goals for all students in mathematics: the development of problem-solving and critical thinking skills; the facility to analyze data, make quantitative and qualitative comparisons, identify trends, and make valid conclusions and predictions; the capacity to make estimates and recognize reasonable results. We regard the skills of mathematics as part of being an educated person and critical to academic training and employment. Furthermore, we consider cooperation with the community, industry, and those in higher education essential in the development and delivery of a mathematics program which effectively educates our citizens and communicates the need for this education to all.

AAS Degree Requirements

Associate of Science - Mathematics

Subject	Semester Hours
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First Semester

EDUC/PSYC 1300 or Component Area Option 1	3
Language, Philosophy & Culture Core	3

ENGL 1301	3
HIST 1301	3
MATH 2312	3
<hr/>	
	15
<hr/>	
Second Semester	
MATH 2413	4
ENGL 1302	3
Life & Physical Sciences Core	3
Science Lab	1
HIST 1302	3
Creative Arts Core	3
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	17
<hr/>	
Third Semester	
Social & Behavioral Sciences Core	3
MATH 2414	4
Life & Physical Science Core	3
Science Lab	1
GOVT 2305	3
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	14
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Fourth Semester	
GOVT 2306	3
MATH 2415	4
MATH 2320	3
MATH 2318	3
Academic Elective**	1
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	14

Students are encouraged to select electives that meet the graduation requirement of the senior institution.

MATH 0115 - 1 Hour Math Lab

Individualized learning program for students needing remediation to pass the college assessment test, prepare for a math class, or develop occupational proficiency in math. Laboratory setting with diagnosis of math strengths and weaknesses. Includes computer and video instruction as appropriate for students studying within specialized environments and/or time constraints.

Upon completion, students will be able to:

- Help students pass the college assessment test.

Grade Basis: P

Lecture hours: 1.0

Lab hours: 1.0

MATH 0120 - Mathematical Literacy Lab

This course is designed to supplement the concepts learned in MATH 1332 and MATH 1342. Concurrent enrollment in one of these classes is required.

Upon completion, students will be able to:

- Supplement the concepts learned in MATH 1332 and MATH 1342

Grade Basis: P

Lecture hours: 1.0

Lab hours: 1.0

Restrictions:

- Must take with MATH 1332 or MATH 1342
-

MATH 0140 - Transition to College Algebra

This course is designed to prepare students for College Algebra. Concurrent enrollment in MATH 0340 is required. This course supplements the concepts learned in MATH 0340.

Upon completion, students will be able to:

- Supplement the concepts learned in MATH 0340

Grade Basis: ALP

Lecture hours: 1.0

Lab hours: 1.0

Restrictions:

- Concurrent enrollment in MATH 0340 is required
-

MATH 0215 - 2 Hour Math Lab

Individualized learning program for students needing remediation to pass the college assessment test, prepare for a math class, or develop occupational proficiency in math. Laboratory setting with diagnosis of math strengths and weaknesses. Includes computer and video instruction as appropriate for students studying within specialized environments and/or time constraints.

Upon completion, students will be able to:

- Individualized learning for students needing help to pass the college assessment test

Grade Basis: P

Lecture hours: 2.0

Lab hours: 2.0

MATH 0315 - 3 Hour Math Lab

Individualized learning program for students needing remediation to pass the college assessment test, prepare for a math class, or develop occupational proficiency in math. Laboratory setting with diagnosis of math strengths and weaknesses. Includes computer and video instruction as appropriate for students studying within specialized environments and/or time constraints.

Upon completion, students will be able to:

- Individualized learning for students needing help to pass the college assessment test

Grade Basis: P

Lecture hours: 3.0

Lab hours: 3.0

MATH 0320 - Elementary Algebra

This course is designed for students with a successful background in Developmental Algebra. Topics include simplifying, multiplying and dividing, and adding and subtracting rational expressions, solving equations containing rational expressions, simplifying complex fractions, graphing linear equations, writing equations of lines, determining intercepts and slopes of lines, solving systems of linear equations by graphing, substitution, and addition, simplifying, adding and subtracting, and multiplying and dividing radicals, and solving quadratic equations by the square root property, completing the square, and the quadratic formula. Students apply their instruction in a lab setting.

Upon completion, students will be able to:

- This course is designed for students with a successful background in Developmental Algebra.

Grade Basis: P

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

MATH 0340 - Transition to College Algebra

A study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

MATH 0420 - Mathematical Literacy for College Students

The course supports students in developing skills, strategies, and reasoning needed to succeed in mathematics, including communication and appropriate use of technology. Topics include the study of numeracy and the real number system; algebraic concepts, notation, and reasoning; quantitative relationships; mathematical models; and problem solving. A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.

Upon completion, students will be able to:

- This course is designed to prepare students for Contemporary Mathematics I, Elementary Statistics, or Transition to College Algebra.

Grade Basis: ALP

Credit hours: 4.0

Lecture hours: 4.0

Lab hours: 1.0

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 1314 - College Algebra

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Prerequisite: MATH 0330, MATH 0340 or equivalent. A grade of C or better must be earned to progress to a Math course that uses this course as a pre requisite. (M)

Upon completion, students will be able to:

- In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [MATH 0340](#) - Transition to College Algebra

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 1316 - Plane Trigonometry

In-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included. Prerequisite: two years of high school algebra or MATH 1314. A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite. (RM)

Upon completion, students will be able to:

- In-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles.

Grade Basis: ALP
Credit hours: 3.0
Lecture hours: 3.0
Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 1324 - Mathematics for Business and Social Sciences I

The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addresses. The application include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming, and probability, including expected value.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP
Credit hours: 3.0
Lecture hours: 3.0
Restrictions:

- Meet TSI college-readiness standard for mathematics; or equivalent
-

MATH 1325 - Mathematics for Business and Social Sciences II

This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute

Upon completion, students will be able to:

- To teach Mathematics used in Business and Social Sciences

Grade Basis: ALP
Credit hours: 3.0
Lecture hours: 3.0
Prerequisites:

- [MATH 1314](#) - College Algebra
 - [MATH 1324](#) - Mathematics for Business and Social Sciences I
-

MATH 1332 - Contemporary Mathematics

Intended for Non STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP
Credit hours: 3.0
Lecture hours: 3.0

MATH 1342 - Elementary Statistical Methods

Elementary Statistical Methods. (3-0-3). Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. (RM)

Upon completion, students will be able to:

- Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended.

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 1350 - Mathematics for Teachers I

This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the conceptual development of the following: sets, functions, numeration systems, number theory, and properties of the various number systems with an emphasis on problem solving and critical thinking.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 1351 - Mathematics for Teachers II

This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the concepts of geometry, measurement, probability, and statistics with an emphasis on problem solving and critical thinking.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 2305 - Discrete Mathematics

A course designed to prepare math, computer science, and engineering majors for a background in abstraction, notation, and critical thinking for the mathematics most directly related to computer science. Topics include: logic,

relations, functions, basic set theory, count ability and counting arguments, proof techniques, mathematical induction, combinatorics, discrete probability, recursion, sequence and recurrence, elementary number theory, graph theory, and mathematical proof techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 2413](#) - Calculus I
-

MATH 2312 - Pre-Calculus Math

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. A grade of C or better must be earned to progress to a Math course that uses this course as a prerequisite.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [MATH 1314](#) - College Algebra

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 2318 - Linear Algebra

Introduces and provides models for application of the concepts of vector algebra. Topics include finite dimensional vector spaces and their geometric significance; representing and solving systems of linear equations using multiple methods, including Gaussian elimination and matrix inversion; matrices; determinants; linear transformations; quadratic forms; eigenvalues and eigenvector; and applications in science and engineering.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

MATH 2320 - Differential Equations

Ordinary differential equations, including linear equations, systems of equations, equations with variable coefficients, existence and uniqueness of solutions, series solutions, singular points, transform methods, and boundary value problems; application of differential equations to real-world problems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 2414](#) - Calculus II

MATH 2413 - Calculus I

Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 4.0

Lecture hours: 4.0

Prerequisites:

- [MATH 2312](#) - Pre-Calculus Math
-

MATH 2414 - Calculus II

Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 4.0

Lecture hours: 4.0

Prerequisites:

- [MATH 2413](#) - Calculus I

Restrictions:

- A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.
-

MATH 2415 - Calculus III

Advanced topics in calculus, including vectors and vector-valued functions, partial differentiation, Lagrange multipliers, multiple integrals, and Jacobians; application of the line integral, including Green's Theorem, the Divergence Theorem, and Stokes' Theorem. A grade of C or better must be earned to progress to a Math course that uses this course as a pre-requisite.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP

Credit hours: 4.0

Lecture hours: 4.0

Prerequisites:

- [MATH 2414](#) - Calculus II
-

MATH 2421 - Differential Equations and Linear Algebra

This course emphasizes solution techniques. Ordinary differential equations, vector spaces, linear transformations, matrix/vector algebra, eigenvectors, Laplace Transform, and systems of equations.

Upon completion, students will be able to:

- See Course Description

Grade Basis: ALP
Credit hours: 4.0
Lecture hours: 4.0
Restrictions:

- Requires Up to 12 SCH of calculus

Advanced Manufacturing

Overview

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303	3
EDUC 1300	3
Social Behavioral Sciences Core	3
MATH 1332	3
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12	
Second Semester	
MCHN 1320	3
ELPT 1311	3
MCHN 1302	3
ENGL 2311	3
Lang, Phil, Culture/Arts Core	3
<hr/>	
15	
Third Semester	
MCHN 1371	3
QCTC 1343	3
AS Life & Phys Science Core	3
AS Life & Phys Science Core Lab	1
MCHN 1438	4
<hr/>	
14	
Fourth Semester	
ELPT 2319	3
MCHN 1326	3
INMT 1391	3
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9	
Fifth Semester (May Mini & Summer)	
ELPT 1441	4
INMT 2688	6
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10	

Notes and Content

Notes and Content

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
First Semester	
TECH 1303 Technical Calculations	3
	3
Second Semester	
MCHN 1320 Prec Tools & Measure	3
	3
Third Semester	
ELPT 1311 Basic Electrical Theory	3
MCHN 1302 Print Rdng for Mchn	3
	6
Fourth Semester	
MCHN 1371 MSSC Local Needs	3
QCTC 1343 Quality Assurance	3
	6
Fifth Semester	
MCHN 1438 Basic Mch Shop I	4
	4
Sixth Semester	
ELPT 2319 PLC'S I	3
MCHN 1326 CAM	3
	6
Seventh Semester (May Mini & Summer)	
INMT 1391 Spec Top in Mfg Technology	3
ELPT 1441 Motor Controls	4
INMT 2688 Internship Mfg Tech	6
	13

Notes and Content

Notes and Content

MCHN 1302 - Print Reading for Machining Trades

A study of blueprints for machining trades with emphasis on machine drawings.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

MCHN 1320 - Precision Tools and Measurement

An introduction to the modern science of dimensional metrology. Emphasis on the identification, selection, and application of various types of precision instruments associated with the machining trade. Practice of basic layout and piece part measurements while using standard measuring tools.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

MCHN 1326 - Introduction to Computer Aided manufacturing

A study of Computer-Aided manufacturing (CAM) software which is used to develop applications in manufacturing. Emphasis on tool geometry, tool selection and the tool library.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

MCHN 1371 - Manufacturing Skills Standards Council Certification

A course that is focused on the core skills and knowledge needed by the nation's front-line production and material handling workers. Addresses core technical competencies of higher skilled production workers in all sectors of manufacturing (Safety, Quality Practices & Measurement, and Manufacturing Processes & Production)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

MCHN 1438 - Basic Machine Shop I

A course that introduces the student to machining fundamentals. The student will use basic machine tools including the lathe, milling machine, drill press, power saw, and bench grinder. Machine terminology, theory, math, part layout, and bench work using common measuring tools is included. Emphasis is placed on shop safety, housekeeping, and preventative maintenance.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Medical Laboratory Technology

Overview

The Medical Laboratory Technology program prepares the student, by formal instruction and clinical experience, to perform laboratory procedures that aid physicians, pathologists and other healthcare providers, in the diagnosis and treatment of disease in the hospital, clinic or research laboratory. Upon completion of the program, students receive an Associate of Applied Science Degree and are eligible to take the national certification exams.

Specific Program Requirements

1. Science courses must have been completed within the past five (5) years. Exceptions may be made by the Medical Laboratory Technology (MLT) Program Director.
2. Students must complete all MLAB courses within a three year period in order to graduate.

This program prepares the medical laboratory technician by formal instruction and clinical experience to perform laboratory procedures which aid physicians and pathologists in the diagnosis and treatment of disease in the hospital, clinic, or research laboratory.

Upon completion of this program, students receive Associate of Applied Science Degrees and may be eligible to take national certification examinations such as that administered by the American Society for Clinical Pathology (ASCP) Board of Certification.

Admission Information

The entry date for the MLT program is generally the Fall Semester of each year, but arrangements can sometimes be made for a spring entry also. An alternative curriculum sequence may be arranged for students having completed academic requirements other than MLAB courses. For fall entry, applications should be submitted to the MLT Program Director by March 1 for early acceptance or until class is full for late acceptance. For spring entry, applications should be submitted by November 1 for early acceptance and by January 1 for late acceptance. Applications will be taken until the class is filled. Class size is limited by availability of clinical sites.

Transcripts (college) and TSI assessment test scores should be included with the application.

Admission Criteria

1. The Health Science Division (HSD) application for Medical Laboratory Technology should be submitted to the Program Director.
2. TSI test scores for assessment purposes should be submitted with the HSD application.
3. Overall GPA of 2.0 or higher is required for all college courses completed.
4. Applicants must meet certain essential functions as defined by NAACLS. The nonacademic criteria (essential functions) which all MLT applicants are expected to meet are listed in the MLT-AD program information brochure.
5. Applicants must make an appointment to meet with the Program Director prior to acceptance.

Selection and Acceptance

There are no pre-requisites courses that must be completed prior to acceptance into the MLT program. Applicants are accepted into the program once the Admission Criteria is met until the class is full. The number of students who can be admitted to the MLT Program is limited by the number of available clinical facilities.

When the maximum number is reached, additional applicants will be placed on a waiting list.

Additional Program Information

MLAB 2660 and MLAB 2661, the major clinical components of the program may be offered in both the Fall and Spring Semesters. Students will be assigned to these clinical rotations based on availability of space and GPA of all required MLT courses. Students may be required to commute to a clinical site outside Grayson County if there are not enough local facilities available.

Employees of the Clinical Affiliates serve as Clinical Coordinators and Clinical Instructors.

Prior to clinical course rotations, students must pass a drug screen test and criminal background check (at the student's expense and completed as scheduled through a GC approved company). Criteria that prevent attendance at clinical sites and/or require withdrawal from the course are stipulated in the related GC Health Science policy.

Students who are certified phlebotomists, or have recent documented experience as a phlebotomist may request credit for PLAB1223 and PLAB 1160 or 1260. Upon completion of adequate phlebotomy skills, such credit may be awarded. Each request will be considered individually and must be approved by the MLT Program Director.

Documentation required by the State of Texas to provide proof of Immunization or proof of immunity, results of a TB test, and the completed medical statement, must be submitted prior to start of class.

Proof of current CPR training must be provided before attending clinicals.

The following curriculum is acceptable for first summer session entry with no previously completed college credit. The first MLAB course is offered during the Fall Semester.

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
MLAB 1291	2
MLAB 1201	2
MLAB 1335	3
PLAB 1160	2
ENGL 1301	2
PLAB 1223	2
	15
Second Semester	
MLAB 2331	3
MLAB 1315	3

MLAB 1127	1
MLAB 1311	3
MLAB 1231	2
Humanities/Fine Arts	1
<hr/>	
	15
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Third Semester	
SPCH 1311 , 1315 or 1321	3
BIOL 2404	4
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	7
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Fourth Semester	
MLAB 2534	4
MLAB 2501	4
MLAB 2338	2
PSYC 2301	3
<hr/>	
	13
<hr/>	
Fifth Semester	
MLAB 2660	6
MLAB 2661	6
<hr/>	
	12

Capstone Requirement: All students must complete the capstone requirement: successfully complete MLAB 2660 and MLAB 2661 prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

MLAB 1127 - Coagulation.

Includes quality control, quality assurance, safety and laboratory procedures which rely on commonly performed manual and semi-automated methods.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 1201 - Introduction to Clinical Laboratory Science

An introduction to clinical laboratory science, including quality control, laboratory math, safety, laboratory equipment, laboratory settings, accreditation, certification, professionalism, and ethics.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Restrictions:

- A grade of "C" or better is required for graduation.
 - Acceptance into MLT-AD Program required
-

MLAB 1231 - Parasitology/Mycology

A study of the taxonomy, morphology, and pathogenesis of human parasites and fungi, including the practical application of laboratory procedures, quality control, quality assurance, and safety.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 1291 - Special Topics MLT

An introductory study to include fundamental microbiology concepts and skills, basic mathematics, and elementary chemistry as they apply specifically to medical laboratory science.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 4.0

Lab hours: 1.0

MLAB 1311 - Urinalysis and Body Fluids

An introduction to urinalysis and body fluid analysis includes the anatomy and physiology of the kidney, physical, chemical and microscopic examination of urine, cerebrospinal fluid, and other body fluids as well as quality control, quality assurance and safety.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 1315 - Hematology

The study of blood cells in normal and abnormal conditions. Instruction in the theory and practical application of hematology procedures, including quality control, quality assurance, safety, manual and/or automated methods; red blood cells and white blood cells as well as blood cell maturation sequences, and normal and abnormal morphology and associated diseases.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 1335 - Immunology/Serology

An introduction to the theory and application of basic immunology, including the immune response, principles of antigen-antibody reactions, and the principles of serological procedures as well as quality control, quality assurance, and safety.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 2331 - Immunohematology

A study of blood group antigens and antibodies. Presents quality control, basic laboratory technique and safety. Includes the principles, procedures and clinical significance of test results in genetics, blood group systems, pre-transfusion testing, adverse effects of transfusions, donor selection and components, and hemolytic disease of the newborn.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 4.0
Prerequisites:

- [MLAB 1335](#) - Immunology/Serology

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 2338 - Advanced Topics in Medical Laboratory Technician

A review course for Medical Laboratory Technology students covering all topics offered in MLT courses. The course examines the integration of all areas of the clinical laboratory and correlates laboratory test data with diagnostic applications and pathophysiology using critical thinking skills. An exam will be given at the end of the course, which must be passed to continue in the program.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 2.0
Lab hours: 4.0

Restrictions:

- All MLT courses must be completed or taken concurrently with a grade of "C" or better within program requirements.
-

MLAB 2501 - Clinical Chemistry

An introduction to the principles and procedures of various tests performed on Clinical Chemistry. Presents the physiological basis for the test, the principle and procedure for the test and the clinical significance of the test results, including quality control and normal values. Also includes basic chemical laboratory technique, chemical laboratory safety, electrolytes and acid-base balance, proteins, carbohydrates, lipids, enzymes, metabolites, endocrine function, and toxicology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 5.0
Lecture hours: 3.0
Lab hours: 6.0

Prerequisites:

- [MLAB 1291](#) - Special Topics MLT

Restrictions:

- A grade of "C" or better is required for graduation.
-

MLAB 2534 - Clinical Microbiology

Instruction in the theory, practical application, and pathogenesis of clinical microbiology, including collection, quality control, quality assurance, safety, setup, identification, susceptibility testing, and reporting results.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 5.0
Lecture hours: 3.0
Lab hours: 6.0

Prerequisites:

- [MLAB 1291](#) - Special Topics MLT

Restrictions:

- A grade of “C” or better is required for graduation.
-

MLAB 2660 - Clinical II

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision, clinical instruction and evaluation is provided by the clinical professional. Students perform laboratory procedures in assigned departments of the clinical laboratory. Departmental rotations include hematology, coagulation, advanced hematology, blood bank, serology, chemistry, and microbiology. Phlebotomy experience will be arranged. A weekly clinical conference will be scheduled.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 6.0

Prerequisites:

- [MLAB 1291](#) - Special Topics MLT

Restrictions:

- Concurrent enrollment in MLAB 2661 required.
 - This course requires 18 lab hours.
-

MLAB 2661 - Clinical III

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision, clinical instruction and evaluation is provided by the clinical professional. Students perform laboratory procedures in assigned departments of the clinical laboratory. Departmental rotations include hematology, coagulation, advanced hematology, blood bank, serology, chemistry, and microbiology. Phlebotomy experience will be arranged. A weekly clinical conference will be scheduled.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 6.0

Prerequisites:

- [MLAB 1291](#) - Special Topics MLT

Restrictions:

- All MLT courses must be completed with a grade of “C” or better within program requirements.
 - Concurrent enrollment in MLAB 2660 required.
-

Viticulture and Enology

Overview

The grape and wine industry is rapidly growing in Texas and across the United States. The Viticulture and Enology Program at Grayson is designed to prepare students for a variety of career opportunities including starting a commercial vineyard and winery and is part of the **Business & Industry Career Pathway**. Most courses are offered

as hybrid with a combination of Internet and weekend classroom instruction. This accommodates students who cannot commit to traditional weekday classes without sacrificing hands-on learning. The Viticulture and Enology Program maintains a 3-acre vineyard, as extensive wine laboratory, and an instructional winery. All serve as an excellent learning resources for students.

The Viticulture and Enology Program offers the convenience of Internet instruction combined with weekend class meetings. A typical 3 credit hour course meets two weekends (Saturday & Sunday) a semester and the remainder of the course material is delivered through Canvas, Grayson's Internet teaching platform. This format accommodates those who cannot commit to traditional weekday classes without sacrificing hands-on winemaking and grape growing. The Viticulture and Enology Program is housed in the T.V. Munson Viticulture and Enology Center on Grayson College's West Extension of campus. The T.V. Munson Center contains a large classroom, an extensive wine laboratory, and an instructional winery. Just down the hill from the T.V. Munson Center is the T.V. Munson Memorial Vineyard which is planted to 3 acres of various grape varieties including over 60 of the original varieties bred by T.V. Munson, and other hybrid and vinifera grapes. Both the vineyard and the winery serve as an excellent learning tool for students in the Viticulture and Enology Program. The Viticulture Program and Enology Program also offers one-day outreach seminars and workshops at various locations across the state. These programs focus topics of specific interest to the grape and wine industry, as well as programming that's geared toward new and future industry members. Upcoming outreach programs can be found on the Viticulture and Enology Program Continuing Education page.

Course Requirements

The Viticulture & Enology program requires that you have a High School Diploma or an equivalent. The Associate of Applied Degree in Viticulture and Enology requires that you meet TSI requirements.

Facilities and Location

As an instructional site, the T.V. Munson Center's 5,000-square-foot facility houses a library for research documents and historic memorabilia; classroom and office space; workroom facilities for processing grape plants, juice and wine. Additionally, the Center has classrooms for the delivery of lectures, seminars, workshops and demonstrations. As a repository and research site, the Viticulture and Enology Center houses an extensive set of written materials related to viticulture and enology. Among these documents are historical materials written about, and by, T.V. Munson regarding the breeding of grapes native to this area of the world. The GC Viticulture & Enology Center rests on five acres of land on the College's West Campus—Extension. The Center's hilltop view overlooks the T.V. Munson Memorial Vineyard and is a short one-hour drive from the DFW Metroplex.

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
FDST 1323	3
Social & Behavioral Science Core	3
FDST 1370	3
ENGL 1301	3
Mathematics/Life & Physical Core	3
	15
Second Semester	
FDST 2320	3
MRKG 1191	1
Lang, Phil, Culture/Creative Arts Core	3
Mathematics/Life & Physical Science Core	3
Social and Behavioral Science Core	3
	13
Third Semester	
FDST 1320	3
Lang, Phil, Culture/Creative Arts Core	3
SPCH 1311 , 1315 , or 1321	3
FDST 2371	3

FDST 2433	4
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	16

Fourth Semester

FDST 2319	3
FDST 2330	3
*Elective	5
FDST 2286	2
Social & Behavioral Science Core	3
<hr/>	
	16

*Elective must be approved by program coordinator.

Certificate Degree Requirements

Enology Certificate

Subject	Semester Hours
First Semester	
FDST 1320	3
FDST 2371	3
Mathematics/Life & Physical Science Core	3
<hr/>	
	9
Second Semester	
FDST 2319	3
FDST 2330	3
FDST 2286	2
<hr/>	
	8

Viticulture Certificate

Subject	Semester Hours
First Semester	
FDST 1323	3
FDST 1370	3
Mathematics/Life & Physical Science Core	3
<hr/>	
	9
Second Semester	
FDST 2320	3
FDST 2371	3
FDST 2286	2
<hr/>	
	8

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

MRKG 1191 - Wine Marketing

Marketing principles, marketing audit, developing a marketing plan, product, promotion, pricing, place and developing new markets.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

MRKG 1200 - Customer Service

Introduction of techniques to create excellent customer service.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Business

Overview

An educational background in Business can take many forms, depending on your personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular and offers flexibility to meet your individual needs. The coursework is designed to provide individuals with the necessary knowledge and skills to be a successful consumer, an efficient team employee in any business environment, and/or a traditional manager in today's global business environment.

You will develop a foundation of communication, economic, accounting, and computer application skills. Then you will enhance your value in the personal or business arena with additional knowledge and skill in the areas of leadership, ethics, business law, marketing, and human resource management.

The **Business Administration Associate of Science (AS) degree** is designed for transfer to four-year institutions. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Science degree in Business Administration.

The **Business and Management Associate of Applied Science (AAS)** degree and offers several certificates that may be completed on the way to earning the AAS. The certificates are in **Business Foundation and General Management**.

The **Marketable Skills Award in Marketing** is a sequence of courses (9 credit hours) that may lead to immediate employment or add to a student's marketability.

Many of these courses may also be taken for non-credit through the GC Continuing Education division.

AS Degree Requirements

Associate of Science - Business Administration

Subject	Semester Hours
First Semester	
ENGL 1301	3
HIST 1301	3
MATH 1324 or higher	3
EDUC 1300/PSYC 1300 or Component Area Option 1	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Second Semester	
Component Area Option 2	3
HIST 1302	3
MATH 1325 or higher	3
BUSI 1301	3
Life & Physical Sciences Core	3
Science Lab	1
	16
Third Semester	
ACCT 2301	3
ECON 2301	3
Creative Arts Core	3
GOVT 2305	3
BCIS 1305	3
	15
Fourth Semester	
ACCT 2302	3
ECON 2302	3
GOVT 2306	3
SPCH 1311 or 1321 *	3
Language, Philosophy & Culture Core	3
	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

AAS Degree Requirements

Associate of Applied Science - Business and Management

Subject	Semester Hours
First Semester	
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
	15
Second Semester	
ACNT 1304	3
BGMT 1305	3
BGMT 1327	3
ECON 2301	3
SPCH 1321 or SPCH 1311 *	3
	15
Third Semester	
BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
	15
Fourth Semester	
ENGL 1301	3
ECON 2302	3
Mathematics/Life & Physical Sciences Core	3
BMGT 2370 (Capstone)	3
Language, Philosophy & Culture Core	3
	15

Note: All science courses at Grayson College must be taken with their corresponding labs.

*SPCH 1321 is recommended.

All students must meet with a counselor or academic advisor to determine which courses will transfer to the four-year school of their choice.

Please Note: Universities that have adopted the Business field of study require computer programming knowledge for the junior level business core. Students who have never taken a computer programming course are encouraged to take COSC 1336 or BCIS 1322.

Certificate Degree Requirements

Certificate - Business General Management¹

Subject	Semester Hours
First Semester	
ACNT 1304	3
BMGT 1305	3
BMGT 1327	3
ECON 2301	3

SPCH 1311 or 1321 ²	3
<hr/>	
	15

Second Semester

BUSG 2305	3
MRKG 1302 , 1311 or 2333	3
HRPO 2301	3
BUSG 2309	3
ACCT 2302	3
Capstone Exam	
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	16

Courses, except for accounting, may be taken in any order.

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

¹This certificate is the second and third semester course work of the Business Management Associate of Applied Science degree plan.

²SPCH 1321 is preferred.

Certificate - Business Foundation³

Subject	Semester Hours
ACNT 1303	3
BUSI 1301	3
BUSG 1304	3
BMGT 2309	3
ITSC 1309	3
Certificate Capstone Exam	
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	15

Capstone Requirement: All students must complete the required departmental comprehensive written and practical competency exam prior to graduation to satisfy the requirements for a capstone experience.

³This is semester one of the Business and Management Associate of Applied Science degree plan.

Business and Management Marketable Skills Award

Subject	Semester Hours
MRKG 1302	3
MRKG 1311	3
MRKG 2333	3
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	9

Core (AS)

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3

090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I
 PHYS 2325 University Physics I
 PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography

PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

Core (AAS)

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

MRKG 1302 - Principles of Retailing

Introduction to the retailing environment and its relationship to consumer demographics, trends, and traditional/nontraditional retailing markets. The employment of retailing techniques and the factors that influence modern retailing.

Upon completion, students will be able to:

- Understand consumer demographics, trends, and traditional/nontraditional retailing markets. The employment of retailing techniques and the factors that influence modern retailing.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

MRKG 1311 - Principles of Marketing

Introduction to basic marketing functions; identification of consumer and organizational needs; explanation of economic, psychological, sociological, and global issues; and description and analysis of the importance of marketing research.

Upon completion, students will be able to:

- Understand basic marketing functions; identification of consumer and organizational needs; explanation of economic, psychological, sociological, and global issues

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

MRKG 2333 - Principles of Selling

Overview of the selling process. Identification of the elements of the communication process between buyers and sellers and examination of the legal and ethical issues of organizations which affect salespeople.

Upon completion, students will be able to:

- Identify of the elements of the communication process between buyers and sellers and examination of the legal and ethical issues of organizations which affect salespeople

Grade Basis: L

Credit hours: 3.0
Lecture hours: 3.0

Music

Overview

The **Music AA degree** at Grayson College is designed for transfer to four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Art degree in Music.

In addition to a degree, Grayson College also offers a **Marketable Skills Award in Audio Engineering**, which is designed to be your first step toward a career as an audio engineer, producer, recording artist, live sound technician, film/video game composer, songwriter, or sound designer. The courses in this award are intended to provide a foundational understanding of music theory, music technology, and the field of commercial music.

This award can be taken by non-music majors who are interested in pursuing a career in commercial music or by music majors intending to transfer to four-year programs in composition, audio engineering, music technology, or theatre tech.

This Award, in conjunction with an Associate of Arts degree in Music, prepares you to become a musician fluent with music technology. Whether you are planning to be a professional classical musician or work in commercial music, the Grayson College Marketable Skills Award in Audio Engineering will give you the foundation you need to harness your creativity.

AA Degree Requirements

Associate of Arts - Music

Subject	Semester Hours
First Semester	
MUSI 1311	3
MUSI 1116	1
MUSI 1181	1
MUAP 12XX	2
MUEN 11XX	1
EDUC/PSYC 1300 or Component Area Option 1	3
MUSI 1307	3
	14
Second Semester	
MUSI 1312	3
MUSI 1117	1
MUSI 1182	1
MUAP 12XX	2
MUEN 11XX or MUSI 1157	1
HIST 1301 or 1302	3
SPCH 1311 , 1315 or 1321	3
Mathematics Core	3
	17
Third Semester	
MUSI 2311	3
MUSI 2116	1
MUSI 2181	1
MUAP 22XX	2
MUEN 21XX	1
GOVT 2305 or 2306	3
ENGL 1301	3
	14

Fourth Semester

MUSI 2312	3
MUSI 2117	1
MUSI 2182	1
MUAP 22XX	2
MUEN 21XX or MUSI 1157	1
Life & Physical Science Core	3
Science Lab	1
ENGL 1302	3
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	15

Note: The AA in Music is a field of study degree and does not include the entire required core. Students are encouraged to take the remaining core courses before transferring.

Audio Engineering Marketable Skills Award

Audio Engineering Marketable Skills Award

Subject	Semester Hours
First Semester	
MUSC 1327	3
MUSC 1213	2
<hr/>	
	5
Second Semester	
MUSC 2327	3
MUSB 1305	3
MUSC 1321	3
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Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking
- SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCI 1301 Introductory Sociology
SOCI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

MUAP 11XX - Freshmen 30 Minute Lessons

Private instruction on a continually graded basis in the specific area of study. Students enrolling in these courses receive one 30-minute lesson each week. One half hour of private practice is required each day and additional studio time to be determined. May be repeated one time for credit. Composition lessons consist of individual instruction in music composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice. (The number "1" in the course titles below indicate freshman-level classes).

Upon completion, students will be able to:

- See course restrictions for specific instrument course number

Grade Basis: L

Credit hours: 1.0

Lab hours: 1.0

Restrictions:

- MUAP 1101 Violin 1
- MUAP 1105 Viola 1
- MUAP 1109 Cello 1
- MUAP 1113 Double Bass 1
- MUAP 1115 Electric Bass 1
- MUAP 1117 Flute 1
- MUAP 1121 Oboe 1
- MUAP 1125 Bassoon 1
- MUAP 1129 Clarinet 1
- MUAP 1133 Saxophone 1
- MUAP 1137 Trumpet 1

- MUAP 1141 French Horn 1
- MUAP 1145 Trombone 1
- MUAP 1153 Tuba 1
- MUAP 1158 Percussion 1
- MUAP 1161 Guitar 1
- MUAP 1169 Piano 1
- MUAP 1170 Jazz Piano 1
- MUAP 1181 Voice 1
- MUAP 1187 Composition 1

MUAP 12XX - Freshmen 60 Minute Lessons

Private instruction on a continually graded basis in the specific area of study. Students enrolling in these courses receive one 60-minute lesson each week. One hour of private practice is required each day and additional studio time to be determined. May be repeated one time for credit. Composition lessons consist of individual instruction in music composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice. (The number "1" in the course titles below indicate freshman-level classes).

Upon completion, students will be able to:

- See course restrictions for specific instrument course number

Grade Basis: L

Credit hours: 2.0

Lab hours: 2.0

Restrictions:

- MUAP 1201 Violin 1
- MUAP 1205 Viola 1
- MUAP 1209 Cello 1
- MUAP 1213 Double Bass 1
- MUAP 1215 Electric Bass 1
- MUAP 1217 Flute 1
- MUAP 1221 Oboe 1
- MUAP 1225 Bassoon 1
- MUAP 1229 Clarinet 1
- MUAP 1233 Saxophone 1
- MUAP 1237 Trumpet 1
- MUAP 1241 French Horn 1
- MUAP 1245 Trombone 1
- MUAP 1253 Tuba 1
- MUAP 1258 Percussion 1
- MUAP 1261 Guitar 1
- MUAP 1269 Piano 1
- MUAP 1270 Jazz Piano 1
- MUAP 1281 Voice 1
- MUAP 1287 Composition 1

MUAP 21XX - Sophomore 30 Minute Lessons

Private instruction on a continually graded basis in the specific area of study. Students enrolling in these courses receive one 30-minute lesson each week. One half hour of private practice is required each day and additional studio time to be determined. May be repeated one time for credit. Composition lessons consist of individual instruction in music composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice. (The number "2" in the course titles below indicate sophomore-level classes).

Upon completion, students will be able to:

- See course restrictions for specific instrument course number

Grade Basis: L

Credit hours: 1.0

Lab hours: 1.0

Restrictions:

- MUAP 2101 Violin 2
- MUAP 2105 Viola 2
- MUAP 2109 Cello 2
- MUAP 2113 Double Bass 2
- MUAP 2115 Electric Bass 2
- MUAP 2117 Flute 2
- MUAP 2121 Oboe 2
- MUAP 2125 Bassoon 2
- MUAP 2129 Clarinet 2
- MUAP 2133 Saxophone 2
- MUAP 2137 Trumpet 2
- MUAP 2141 French Horn 2
- MUAP 2145 Trombone 2
- MUAP 2153 Tuba 2
- MUAP 2158 Percussion 2
- MUAP 2161 Guitar 2
- MUAP 2169 Piano 2
- MUAP 2170 Jazz Piano 2
- MUAP 2181 Voice 2
- MUAP 2187 Composition 2

MUAP 22XX - Sophomore 60 Minute Lessons

Private instruction on a continually graded basis in the specific area of study. Students enrolling in these courses receive one 60-minute lesson each week. One hour of private practice is required each day and additional studio time to be determined. May be repeated one time for credit. Composition lessons consist of individual instruction in music composition. Composing in small forms for simple media in both traditional styles and styles of the student's choice. (The number "2" in the course titles below indicate that they are sophomore-level classes).

Upon completion, students will be able to:

- See course restrictions for specific instrument course number

Grade Basis: L

Credit hours: 2.0

Lab hours: 2.0

Restrictions:

- MUAP 2201 Violin 2
- MUAP 2205 Viola 2
- MUAP 2209 Cello 2
- MUAP 2213 Double Bass 2
- MUAP 2215 Electric Bass 2
- MUAP 2217 Flute 2
- MUAP 2221 Oboe 2
- MUAP 2225 Bassoon 2
- MUAP 2229 Clarinet 2
- MUAP 2233 Saxophone 2
- MUAP 2237 Trumpet 2
- MUAP 2241 French Horn 2
- MUAP 2245 Trombone 2
- MUAP 2253 Tuba 2
- MUAP 2258 Percussion 2
- MUAP 2261 Guitar 2
- MUAP 2269 Piano 2
- MUAP 2270 Jazz Piano 2
- MUAP 2281 Voice 2
- MUAP 2287 Composition 2

MUEN 1124 - Concert Band I

Large ensemble involving band instruments and literature designed to allow student to perform quality instrumental music. Open to all instrumentalists.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0
Restrictions:

- May be repeated one time for credit.
-

MUEN 1131 - Strings Chamber Ensemble I

Small ensemble involving stringed instruments and literature designed to allow students to perform quality music in a small setting. Open to all students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0
Restrictions:

- May be repeated one time for credit.
-

MUEN 1132 - Jazz Combo Chamber Ensemble I

Small ensemble involving jazz combo instruments and literature designed to allow students to perform quality jazz music in a small setting. Open to all students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0
Restrictions:

- May be repeated one time for credit.
-

MUEN 1133 - Mixed Chamber Ensemble I

Small ensemble involving mixed band instruments and literature designed to allow students to perform quality music in a small setting. Open to all students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0
Restrictions:

- May be repeated one time for credit.
-

MUEN 1134 - Guitar Ensemble I

Small ensemble involving guitars and literature designed to allow students to perform quality music in a small setting. Open to all students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0
Restrictions:

- May be repeated one time for credit.
-

MUEN 1135 - Piano Ensemble I

Small ensemble involving piano and literature designed to allow students to perform quality music in a small setting. Open to all students. May be repeated one time for credit.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

MUEN 1141 - Choir

Open to all students. A large ensemble designed to allow students to perform quality choral music.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

Restrictions:

- May be repeated one time for credit.
-

MUEN 2124 - Concert Band II

Open to students who have already taken two semesters of MUEN 1124. A large ensemble involving band instruments and literature designed to allow students to perform quality instrumental music.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

Prerequisites:

- [MUEN 1124](#) - Concert Band I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2131 - String Chamber Ensemble II

Open to students who have already taken two semesters of MUEN 1131. A small ensemble involving stringed instruments and literature designed to allow students to perform quality music in a small setting.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUEN 1131](#) - Strings Chamber Ensemble I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2132 - Jazz Combo Chamber Ensemble II

Open to students who have already taken two semesters of MUEN 1132. A small ensemble involving jazz combo instruments and literature designed to allow students to perform quality jazz music in a small setting.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUEN 1132](#) - Jazz Combo Chamber Ensemble I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2133 - Mixed Chamber Ensemble II

Open to students who have already taken two semesters of MUEN 1133. Small ensemble involving mixed band instruments and literature designed to allow students to perform quality music in a small setting.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUEN 1133](#) - Mixed Chamber Ensemble I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2134 - Guitar Ensemble II

Open to all students who have already taken two semesters of MUEN 1134. A small ensemble involving guitars and literature designed to allow students to perform quality music in a small setting

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUEN 1134](#) - Guitar Ensemble I

Restrictions:

- May be repeated one time for credit.
-

MUEN 2135 - Piano Ensemble II

Small ensemble involving piano and literature designed to allow students to perform quality music in a small setting. Open to all students. May be repeated one time for credit.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

MUEN 2141 - Advanced Choir

Open to students who have already taken two semesters of MUEN 1141. A large ensemble designed to allow students to perform quality choral music.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUEN 1141](#) - Choir

Restrictions:

- May be repeated one time for credit.
-

MUSB 1305 - Survey of the Music Business

An overview of the music industry including songwriting, live performance, the record industry, music merchandising, contracts and licenses, and career opportunities.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

MUSB 2301 - Music Marketing

Methods of music distribution, retailing, and wholesaling. Includes identifying a target market, image building, distribution (brick and mortar vs. digital delivery), pricing, advertising, and marketing mix.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MUSB 1305](#) - Survey of the Music Business
-

MUSC 1235 - Commercial Music Software

Specialized training in commercial music software applications.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUSB 1305](#) - Survey of the Music Business
-

MUSC 1321 - Songwriting I

Introduction to the techniques of writing marketable songs including the writing of lyrics and melodies, setting lyrics to music, developing lyrical and musical "hooks," analyzing the marketplace, and developing a production plan for a song demo.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

MUSC 1327 - Audio Engineering I

Overview of the recording studio. Includes basic studio electronics and acoustic principles, waveform properties, microphone concepts and mixing techniques, studio set up and signal flow, recording console theory, signal processing concepts, recorder principles and operation, and an overview of mixing and editing.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

MUSC 2327 - Audio Engineering II

Implementation of the recording process, microphones, audio console, multi-track recorder, and signal processing devices.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [MUSC 1327](#) - Audio Engineering I
-

MUSI 1116 - Sight Singing & Ear Training I

Singing tonal music in the treble, bass, alto and tenor clefs. Aural study, including dictation, of rhythm, melody, and diatonic harmony. MUSI 1116 is only offered in the Fall semester.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- Students must take MUSI 1311, Music Theory I, and MUSI 1114, Piano Class for Music Majors I, concurrently
-

MUSI 1117 - Sight Singing & Ear Training II

Singing tonal music in treble, bass, alto, and tenor clefs. Aural study, including dictation, of rhythm, melody, and diatonic harmony.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUSI 1116](#) - Sight Singing & Ear Training I

Restrictions:

- Students must take MUSI 1312, Music Theory II, and MUSI 1115, Piano Class for Music Majors II, concurrently. MUSI 1117 is only offered in the Spring semester.
-

MUSI 1157 - Opera Workshop I

Performance of portions of or complete operas and the study of the integration of music, acting, and staging of an opera.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

MUSI 1181 - Piano Class I

The first semester of class instruction in the fundamentals of keyboard technique for beginning piano students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

MUSI 1182 - Piano Class II

The second semester of class instruction in the fundamentals of keyboard technique for beginning piano students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

MUSI 1183 - Voice Class I

Class instruction in the fundamentals of singing including breathing, tone production, and diction. Designed for students with little or no previous voice training.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

MUSI 1192 - Guitar Class I

Class instruction in the fundamental techniques of playing guitar.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

MUSI 1303 - Fundamentals of Music

Introduction to the basic elements of music theory for non-music majors: scales, intervals, keys, triads, elementary ear training, keyboard harmony, notation, meter, and rhythm. (Does not apply to a music major degree.)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

MUSI 1306 - Music Appreciation

Understanding music through the study of cultural periods, major composers, and musical elements. Illustrated with audio recordings and live performances. (Does not apply to a music major degree.)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

MUSI 1307 - Music Literature

Survey of the principal musical forms and cultural periods as illustrated in the literature of major composers.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

MUSI 1311 - Music Theory I

Analysis and writing of tonal melody and diatonic harmony up to and including the chords. Analysis and writing of small compositional forms. Correlated study at the keyboard.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Restrictions:

- MUSI 1311 is only offered in the Fall semester.
 - Students must take MUSI 1116, Sight Singing & Ear Training I, and MUSI 1114, Piano Class for Music Majors I, concurrently.
-

MUSI 1312 - Music Theory II

Analysis and writing of tonal melody and diatonic harmony up to and including the chords. Analysis and writing of small compositional forms. Correlated study at the keyboard.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Prerequisites:

- [MUSI 1311](#) - Music Theory I

Restrictions:

- Students must take MUSI 1117, Sight Singing & Ear Training II, and MUSI 1115, Piano Class for Music Majors II, concurrently.
 - MUSI 1312 is only offered in the Spring semester
-

MUSI 2116 - Sight Singing & Ear Training III

Singing more difficult tonal music including modal, ethnic, and 20th century materials. Aural study, including dictation of more complex rhythm, melody, chromatic harmony, and extended tertian structures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lab hours: 3.0

Prerequisites:

- [MUSI 1117](#) - Sight Singing & Ear Training II

Restrictions:

- Students must take MUSI 2311, Music Theory III, and MUSI 2114, Piano Class for Music Majors III, concurrently.

- MUSI 2116 in only offered in the Fall semester.
-

MUSI 2117 - Sight Singing & Ear Training IV

Singing more difficult tonal music including modal, ethnic, and 20th century materials. Aural study, including dictation of more complex rhythm, melody, chromatic harmony, and extended tertian structures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MUSI 2116](#) - Sight Singing & Ear Training III

Restrictions:

- Students must take MUSI 2312, Theory of Music IV, and MUSI 2115, Piano Class for Music Majors IV, concurrently.
 - MUSI 2117 in only offered in the Spring semester.
-

MUSI 2181 - Piano Class III

The third semester of class instruction in the fundamentals of keyboard technique for piano students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

MUSI 2182 - Piano Class IV

Class instruction in the fundamentals of keyboard technique for beginning piano students.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Lab hours: 1.0

MUSI 2311 - Music Theory III

Advanced harmony part writing and keyboard analysis and writing of more advanced tonal harmony including chromaticism and extended tertian structures. Introduction to 20th century compositional procedures and survey of the traditional large forms of composition. Correlated study at the keyboard.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MUSI 1312](#) - Music Theory II

Restrictions:

- Students must take MUSI 2116, Sight Singing & Ear Training III, and MUSI 2114, Piano Class for Music Majors III, concurrently.
- Music 2311 is only offered in the Fall semester.

MUSI 2312 - Music Theory IV

Advanced harmony part writing and keyboard analysis and writing of more advanced tonal harmony including chromaticism and extended tertian structures. Introduction to 20th century compositional procedures and survey of the traditional large forms of composition. Correlated study at the keyboard.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MUSI 2312](#) - Music Theory IV

Restrictions:

- Music 2312 is only offered in the Spring semester.
- Students must take MUSI 2117, Sight Singing & Ear Training IV, and MUSI 2115, Piano Class for Music Majors IV, concurrently.

Occupational Safety and Health

Overview

The OSHA curriculum at Grayson College is designed for transfer to four-year institutions, and the college has a specific agreement with [Southeastern Oklahoma University](#). However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree.

Areas of Employment Utilizing Training in OSHA include: Community Activist, Consumer Safety Officer, Fire Departments, Emergency Preparedness Specialist, Environmental Health, Emergency Response Specialist, Food Inspector/Department of Agriculture, Food Service Sanitarian, Hazardous Waste Inspector, Health Facility Surveyor, Industrial Hygienist, Injury Prevention Specialist, Patient Safety Specialist, Poisoning Prevention Coordinator, Program Officer, Urban Planner, Worksite Wellness Manager.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. Students must be college ready in reading, writing and math based on GC's TSI Assessment.

AS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
ENGL 1301	3
HIST 1301	3
EDUC/PSYC 1300	3
Creative Arts Core	3
COSC 1301	3
	15

Second Semester

ENGL 1302	3
HIST 1302	3
OSHT 1301	3
Life & Physical Science Core	3
Science Lab	1
Social & Behavioral Science Core	3
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	16

Third Semester

GOVT 2305	3
OSHT 1321	3
Social and Behavioral Science Core	3
MATH 1314	3
Elective	3
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	15

Fourth Semester

GOVT 2306	3
HUMA 1301	3
ECON 2302	3
Oral Communication	3
CHEM 1311	3
CHEM 1111	1
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	16

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)**ENGL 1301 Composition I and one of the following:**

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking
- SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

OSHT 1301 - Introduction to Safety and Health

An Introduction to the basic concepts of safety and health. Students will identify appropriate procedures to minimize or prevent injuries and illness in the workplace; incorporate job safety analysis (JSA) and appropriate training; and name elements of an effective safety culture.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

OSHT 1321 - Fire Protection Systems

Study of fire protection systems and their applications with emphasis on the fire prevention codes and standards.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Kinesiology/Exercise Science

Overview

The Kinesiology/Exercise Science AS degree at Grayson College is designed for transfer to four-year institutions and can lead to a bachelor's degree in sports management, physical education, physical therapy assistant, and other various degrees related to health and fitness.

Students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Kinesiology degree program.

AS Degree Requirements

Kinesiology/Exercise Science

Subject	Semester Hours
First Semester	
ENGL 1301	3
MATH 1315	3
HIST 1301 or 1302	3
EDUC/PSYC 1300	3
PHED 1304	3
	15
Second Semester	
ENGL 1302 or SPCH 1311	3
BIOL 1306	3
BIOL 1106	1
MUSI 1306 or ARTS 1301	3
GOVT 2305	3
PHED 1301	3
	16
Third Semester	
HUMA 1301	3
BIOL 2301	3
BIOL 2101	1
History Core	3
PHED 1338	3
PHED 1164	1
	14
Fourth Semester	
SOC1 1301 or PSYC 2301	3
GOVT 2306	3
PHED 1308	3
PHED 2356	3
PHED 1306	3
	15

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3

030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I
 CHEM 1312 General Chemistry II
 GEOL 1301 Earth Sciences for Non-Science Majors I
 GEOL 1303 Physical Geology
 GEOL 1304 Historical Geology
 GEOL 1305 Environmental Science
 PHYS 1301 College Physics I
 PHYS 1302 College Physics II
 PHYS 1303 Stars and Galaxies
 PHYS 1304 Solar System
 PHYS 1315 Physical Science I

PHYS 2325 University Physics I

PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2332 World Literature I

ENGL 2333 World Literature II

ENGL 2341 Forms of Literature

ENGL 2351 Mexican-American Literature

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCL 1301 Introductory Sociology
SOCL 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHED 1110 - General Activities

Fundamental instruction and participation in individual and team sports, including tennis, basketball, volleyball, and weight lifting.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1111 - Slimnastics

Exercise course which includes physical self-improvement through total fitness, physical fitness, and body improvement.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1112 - Weight Training and Conditioning

Introduction to basic conditioning exercises with primary instruction on proper stretching, weight lifting techniques, and aerobic conditioning methods.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1115 - Volleyball/Basketball

Rules, skills, techniques, and strategies of the two sports. Individual skills and team concepts. Emphasis on league and recreation utilization of the two sports.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1116 - Jogging and Conditioning

Designed to improve one's fitness level including strength, muscular endurance, running techniques, etc.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1130 - Beginning Bowling

Scoring, rules of etiquette, basic skills, and recreational opportunities in community life.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1131 - Intermediate Bowling

Advanced skills, spare bowling, various types of ball delivery.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
 - Beginning Bowling or consent of division director.
-

PHED 1132 - Advanced Bowling

Designed to further enhance individual bowling skills beyond technique and toward overall strategy of the game.

Prerequisite: Intermediate Bowling or consent of division coordinator.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1142 - Varsity Sports I

Presentation of current scientific and technical information related to a particular activity with emphasis on developing health and skill related fitness, as well as fundamental skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lecture hours: 3.0
Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1144 - Varsity Conditioning I

This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at the upper collegiate level.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1164 - Introduction to Physical Fitness & Sport

Orientation to the field of physical fitness and sport. Includes the study and practice of activities and principles that promote physical fitness

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1166 - First Aid

Instruction in and practice of first aid techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1170, 1171, 1172, 1174, 1175 - Intercollegiate sports

Intercollegiate sports. Maximum credit of four semester hours.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 1.0
Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 1301 - Foundations of Kinesiology

The purpose of this course is to provide students with an introduction to human movement that includes the historical development of physical education, exercise science, and sport. This course offers the student both an introduction to the knowledge base, as well as information on expanding career opportunities.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

PHED 1304 - Personal & Community Health I

Investigation of the principles and practices in relation to personal and community health.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

PHED 1306 - First Aid

Instruction and practice for emergency care. Designed to enable students to recognize and avoid hazards within their environment, to render intelligent assistance in case of accident or sudden illness, and to develop skills necessary for the immediate and temporary care of the victim. Successful completion of the course may enable the student to receive a certificate from a nationally recognized agency.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

PHED 1308 - Sports Officiating I

The purpose of the course is to study officiating requirements for sports and games with an emphasis on mechanics, rule interpretation, and enforcement.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

PHED 1321 - Coaching/Sports/Athletics

Study of the history, theories, philosophies, rules, and terminology of competitive sports. Includes coaching techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

PHED 1338 - Concepts of Physical Fitness

Concepts and use of selected physiological variables of fitness, individual testing and consultation, and the organization of sports and fitness programs.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course
-

PHED 2111 - Yoga.

Exercise course which includes instruction and participation in yoga

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 2112 - Advanced Weight Training and Conditioning

Designed to further enhance individual conditioning, stretching, weight lifting techniques, and aerobic conditioning.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 2116 - Advanced Jogging and Conditioning

Designed to further enhance one's fitness level including strength, muscular endurance, running techniques, etc. Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 2142 - Varsity Sports II

Presentation of current scientific and technical information related to a particular activity with emphasis on developing health and skill related fitness, as well as fundamental skills.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 2144 - Varsity Conditioning II

This course offers development of skills and personal potential for student athletes interested in improving their performance or preparing for further competition at the upper collegiate level.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 3.0

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
-

PHED 2356 - Care and Prevention of Athletic Injuries

Prevention and care of athletic injuries with emphasis on qualities of a good athletic trainer, avoiding accidents and injuries, recognizing signs and symptoms of specific sports injuries and conditions, immediate and long-term care of injuries, and administration procedures in athletic training.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Theory Course

Philosophy

Overview

For students interested in pursuing an Philosophy degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	14
Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
	15
Fourth Semester	
GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods
 MATH 2312 Pre-Calculus Math
 MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
 BIOL 1307 Biology for Science Majors II
 BIOL 1308 Biology for Non-Science Majors I
 BIOL 1309 Biology for Non-Science Majors II
 BIOL 1414 Introduction to Biotechnology I
 BIOL 2301 Anatomy & Physiology I
 BIOL 2302 Anatomy & Physiology II
 BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
 BIOL 2320 Microbiology for Non-Science Majors
 BIOL 2321 Microbiology for Science Majors
 CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
 CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:
HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHIL 1301 - Introduction to Philosophy

A study of major issues in philosophy and/or the work of major philosophical figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHIL 1304 - Introduction to World Religions

A comparative study of world religions, including but not limited to Hinduism, Buddhism, Judaism, Christianity, and Islam.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHIL 2306 - Introduction to Ethics

The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals, and standards of value.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

PHIL 2321 - Philosophy of Religion

A study of the major issues in the philosophy of religion such as the existence and nature of God, the relationships between faith and reason, the nature of religious language, religious experience, and the problem of evil.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Physics

Overview

For students planning to pursue a Physics major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in General Studies** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AS Degree Requirements

Associate of Science - General Studies

The General Studies AS degree at Grayson College is designed for transfer into STEM, Social or Behavioral Sciences, Humanities, Language or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students desired major. For a STEM major, we recommend taking elective courses in Science or Mathematics.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	14
Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
	15
Fourth Semester	
GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology

GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PHYS 1101 - College Physics I (lab)

This laboratory-based course accompanies PHYS 1301, College Physics I. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; emphasis will be on problem solving.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [PHYS 1301](#) - College Physics I

Restrictions:

- College readiness in reading and math required.
-

PHYS 1102 - College Physics II (lab)

This laboratory-based course accompanies PHYS 1302, College Physics II. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [PHYS 1302](#) - College Physics II

Restrictions:

- College readiness in reading and math required.
-

PHYS 1103 - Stars and Galaxies

Laboratory in the study of stars, galaxies, and the universe outside our solar system.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [PHYS 1303](#) - Stars and Galaxies

Restrictions:

- College readiness in reading and math required.
-

PHYS 1104 - Solar System

Laboratory in the study of the sun and its solar system, including its origin.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [PHYS 1304](#) - Solar System

Restrictions:

- College readiness in reading is required.
-

PHYS 1115 - Physical Science Laboratory I

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 2.0

Prerequisites:

- [PHYS 1315](#) - Physical Science I

Restrictions:

- College readiness in reading is required.
-

PHYS 1301 - College Physics I

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, physical systems, Newton's Laws of Motion, and gravitation; with emphasis on problem solving, constant acceleration.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading and math required.
-

PHYS 1302 - College Physics II

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, and optics; with emphasis on problem solving, capacitance and resistance, superposition of waves.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [PHYS 1301](#) - College Physics I

Restrictions:

- College readiness in reading and math required.
-

PHYS 1303 - Stars and Galaxies

Study of stars, galaxies, and the universe outside our solar system.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading and math required.
-

PHYS 1304 - Solar System

Study of stars, galaxies, and the universe outside our solar system.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading and math required.
-

PHYS 1315 - Physical Science I

Course designed for non-science majors that surveys topics from physics, chemistry, geology, astronomy, and meteorology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- College readiness in reading and math required.
-

PHYS 2125 - University Physics Laboratory I

Basic laboratory experiments supporting theoretical principles presented in PHYS 2325 involving the principles and applications of classical mechanics, including harmonic motion and physical systems; experimental design, data collection and analysis, and preparation of laboratory reports.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [MATH 2413](#) - Calculus I
- [PHYS 2325](#) - University Physics I

Restrictions:

- College readiness in reading, and math required.
-

PHYS 2126 - University Physics Laboratory II

Laboratory experiments supporting theoretical principles presented in PHYS 2326 involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics; experimental design, data collection and analysis, and preparation of laboratory reports.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 3.0

Prerequisites:

- [PHYS 2326](#) - University Physics II

Restrictions:

- College readiness in reading, and math required.
-

PHYS 2325 - University Physics I

Fundamental principles of physics, using calculus, for science, computer science, and engineering majors; the principles and applications of classical mechanics, including harmonic motion, physical systems and thermodynamics; and emphasis on problem solving.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [MATH 2414](#) - Calculus II

Restrictions:

- College readiness in reading and math required.
-

PHYS 2326 - University Physics II

Principles of physics for science, computer science, and engineering majors, using calculus, involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Prerequisites:

- [PHYS 2325](#) - University Physics I

Restrictions:

- College readiness in reading and math required.
-

Medical Laboratory Technology

Overview

The Medical Laboratory Technology program prepares the student, by formal instruction and clinical experience, to perform laboratory procedures that aid physicians, pathologists and other healthcare providers, in the diagnosis and treatment of disease in the hospital, clinic or research laboratory. Upon completion of the program, students receive an Associate of Applied Science Degree and are eligible to take the national certification exams.

Specific Program Requirements

1. Science courses must have been completed within the past five (5) years. Exceptions may be made by the Medical Laboratory Technology (MLT) Program Director.
2. Students must complete all MLAB courses within a three year period in order to graduate.

This program prepares the medical laboratory technician by formal instruction and clinical experience to perform laboratory procedures which aid physicians and pathologists in the diagnosis and treatment of disease in the hospital, clinic, or research laboratory.

Upon completion of this program, students receive Associate of Applied Science Degrees and may be eligible to take national certification examinations such as that administered by the American Society for Clinical Pathology (ASCP) Board of Certification.

Admission Information

The entry date for the MLT program is generally the Fall Semester of each year, but arrangements can sometimes be made for a spring entry also. An alternative curriculum sequence may be arranged for students having completed academic requirements other than MLAB courses. For fall entry, applications should be submitted to the MLT Program Director by March 1 for early acceptance or until class is full for late acceptance. For spring entry, applications should be submitted by November 1 for early acceptance and by January 1 for late acceptance. Applications will be taken until the class is filled. Class size is limited by availability of clinical sites.

Transcripts (college) and TSI assessment test scores should be included with the application.

Admission Criteria

1. The Health Science Division (HSD) application for Medical Laboratory Technology should be submitted to the Program Director.
2. TSI test scores for assessment purposes should be submitted with the HSD application.
3. Overall GPA of 2.0 or higher is required for all college courses completed.
4. Applicants must meet certain essential functions as defined by NAACLS. The nonacademic criteria (essential functions) which all MLT applicants are expected to meet are listed in the MLT-AD program information brochure.
5. Applicants must make an appointment to meet with the Program Director prior to acceptance.

Selection and Acceptance

There are no pre-requisites courses that must be completed prior to acceptance into the MLT program. Applicants are accepted into the program once the Admission Criteria is met until the class is full. The number of students who can be admitted to the MLT Program is limited by the number of available clinical facilities.

When the maximum number is reached, additional applicants will be placed on a waiting list.

Additional Program Information

MLAB 2660 and MLAB 2661, the major clinical components of the program may be offered in both the Fall and Spring Semesters. Students will be assigned to these clinical rotations based on availability of space and GPA of all required MLT courses. Students may be required to commute to a clinical site outside Grayson County if there are not enough local facilities available.

Employees of the Clinical Affiliates serve as Clinical Coordinators and Clinical Instructors.

Prior to clinical course rotations, students must pass a drug screen test and criminal background check (at the student's expense and completed as scheduled through a GC approved company). Criteria that prevent attendance at clinical sites and/or require withdrawal from the course are stipulated in the related GC Health Science policy.

Students who are certified phlebotomists, or have recent documented experience as a phlebotomist may request credit for PLAB1223 and PLAB 1160 or 1260. Upon completion of adequate phlebotomy skills, such credit may be awarded. Each request will be considered individually and must be approved by the MLT Program Director.

Documentation required by the State of Texas to provide proof of Immunization of proof of immunity, results of a TB test, and the completed medical statement, must be submitted prior to start of class.

Proof of current CPR training must be provided before attending clinicals.

The following curriculum is acceptable for first summer session entry with no previously completed college credit. The first MLAB course is offered during the Fall Semester.

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
MLAB 1291	2
MLAB 1201	2
MLAB 1335	3
PLAB 1160	2
ENGL 1301	2
PLAB 1223	2
	15
Second Semester	
MLAB 2331	3
MLAB 1315	3
MLAB 1127	1
MLAB 1311	3
MLAB 1231	2
Humanities/Fine Arts	1
	15
Third Semester	
SPCH 1311, 1315 or 1321	3
BIOL 2404	4
	7
Fourth Semester	
MLAB 2534	4
MLAB 2501	4
MLAB 2338	2
PSYC 2301	3
	13
Fifth Semester	
MLAB 2660	6
MLAB 2661	6
	12

Capstone Requirement: All students must complete the capstone requirement: successfully complete MLAB 2660 and MLAB 2661 prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

PLAB 1160 - Phlebotomy Clinical

Skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. On-site clinical instruction, supervision, and evaluation of phlebotomy skills learned in PLAB 1223.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 4.0

Prerequisites:

- [MLAB 1291](#) - Special Topics MLT

Restrictions:

- Concurrent enrollment or previous completion of PLAB 1223 is required.

Health Science Related Courses

PLAB 1223 - Phlebotomy

Skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, proper patient identification, labeling of specimens and quality assurance, specimen handling, processing, accessioning, professionalism, ethics, and medical terminology. Students who are certified phlebotomists or have recent

documented experience as a phlebotomist may request credit for this course. Each request will be considered individually and must be approved by the MLT Program Director.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment in MLAB 1260 required
- A grade of "C" or better is required for graduation.

Medical Laboratory Technology

Overview

The Medical Laboratory Technology program prepares the student, by formal instruction and clinical experience, to perform laboratory procedures that aid physicians, pathologists and other healthcare providers, in the diagnosis and treatment of disease in the hospital, clinic or research laboratory. Upon completion of the program, students receive an Associate of Applied Science Degree and are eligible to take the national certification exams.

Specific Program Requirements

1. Science courses must have been completed within the past five (5) years. Exceptions may be made by the Medical Laboratory Technology (MLT) Program Director.
2. Students must complete all MLAB courses within a three year period in order to graduate.

This program prepares the medical laboratory technician by formal instruction and clinical experience to perform laboratory procedures which aid physicians and pathologists in the diagnosis and treatment of disease in the hospital, clinic, or research laboratory.

Upon completion of this program, students receive Associate of Applied Science Degrees and may be eligible to take national certification examinations such as that administered by the American Society for Clinical Pathology (ASCP) Board of Certification.

Admission Information

The entry date for the MLT program is generally the Fall Semester of each year, but arrangements can sometimes be made for a spring entry also. An alternative curriculum sequence may be arranged for students having completed academic requirements other than MLAB courses. For fall entry, applications should be submitted to the MLT Program Director by March 1 for early acceptance or until class is full for late acceptance. For spring entry, applications should be submitted by November 1 for early acceptance and by January 1 for late acceptance. Applications will be taken until the class is filled. Class size is limited by availability of clinical sites.

Transcripts (college) and TSI assessment test scores should be included with the application.

Admission Criteria

1. The Health Science Division (HSD) application for Medical Laboratory Technology should be submitted to the Program Director.
2. TSI test scores for assessment purposes should be submitted with the HSD application.
3. Overall GPA of 2.0 or higher is required for all college courses completed.
4. Applicants must meet certain essential functions as defined by NAACLS. The nonacademic criteria (essential functions) which all MLT applicants are expected to meet are listed in the MLT-AD program information brochure.
5. Applicants must make an appointment to meet with the Program Director prior to acceptance.

Selection and Acceptance

There are no pre-requisites courses that must be completed prior to acceptance into the MLT program. Applicants are accepted into the program once the Admission Criteria is met until the class is full. The number of students who can be admitted to the MLT Program is limited by the number of available clinical facilities.

When the maximum number is reached, additional applicants will be placed on a waiting list.

Additional Program Information

MLAB 2660 and MLAB 2661, the major clinical components of the program may be offered in both the Fall and Spring Semesters. Students will be assigned to these clinical rotations based on availability of space and GPA of all required MLT courses. Students may be required to commute to a clinical site outside Grayson County if there are not enough local facilities available.

Employees of the Clinical Affiliates serve as Clinical Coordinators and Clinical Instructors.

Prior to clinical course rotations, students must pass a drug screen test and criminal background check (at the student's expense and completed as scheduled through a GC approved company). Criteria that prevent attendance at clinical sites and/or require withdrawal from the course are stipulated in the related GC Health Science policy.

Students who are certified phlebotomists, or have recent documented experience as a phlebotomist may request credit for PLAB1223 and PLAB 1160 or 1260. Upon completion of adequate phlebotomy skills, such credit may be awarded. Each request will be considered individually and must be approved by the MLT Program Director.

Documentation required by the State of Texas to provide proof of Immunization or proof of immunity, results of a TB test, and the completed medical statement, must be submitted prior to start of class.

Proof of current CPR training must be provided before attending clinicals.

The following curriculum is acceptable for first summer session entry with no previously completed college credit. The first MLAB course is offered during the Fall Semester.

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
MLAB 1291	2
MLAB 1201	2
MLAB 1335	3
PLAB 1160	2
ENGL 1301	2
PLAB 1223	2
	15
Second Semester	
MLAB 2331	3
MLAB 1315	3
MLAB 1127	1
MLAB 1311	3
MLAB 1231	2
Humanities/Fine Arts	1
	15
Third Semester	
SPCH 1311, 1315 or 1321	3
BIOL 2404	4
	7
Fourth Semester	
MLAB 2534	4
MLAB 2501	4
MLAB 2338	2
PSYC 2301	3
	13
Fifth Semester	
MLAB 2660	6
MLAB 2661	6
	12

Capstone Requirement: All students must complete the capstone requirement: successfully complete MLAB 2660 and MLAB 2661 prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

PLAB 1223 - Phlebotomy

Skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, proper patient identification, labeling of specimens and quality assurance, specimen handling, processing, accessioning professionalism, ethics, and medical terminology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 4.0

Prerequisites:

- [MLAB 1291](#) - Special Topics MLT

Restrictions:

- Concurrent enrollment in PLAB 1250 or 1160 required.
- Students who are certified phlebotomists, or have recent documented experience as a phlebotomist may request credit for this course.
- Each request will be considered individually and must be approved by the MLT Program Director. A grade of "C" or better is required for graduation.

Health Science Related Courses

PLAB 1260 - Clinical I

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Includes skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. On-site clinical instruction, supervision, and evaluation of phlebotomy skills learned in PLAB 1223. Students who are certified phlebotomists or have recent documented experience as a phlebotomist may request credit for this course. Each request will be considered individually and must be approved by the MLT Program Director.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Lab hours: 6.0

Restrictions:

- Concurrent or previous enrollment in PLAB 1223 required.
- A grade of "C" or better is required for graduation.

Medical Laboratory Technology

Overview

The Medical Laboratory Technology program prepares the student, by formal instruction and clinical experience, to perform laboratory procedures that aid physicians, pathologists and other healthcare providers, in the diagnosis and treatment of disease in the hospital, clinic or research laboratory. Upon completion of the program, students receive an Associate of Applied Science Degree and are eligible to take the national certification exams.

Specific Program Requirements

1. Science courses must have been completed within the past five (5) years. Exceptions may be made by the Medical Laboratory Technology (MLT) Program Director.
2. Students must complete all MLAB courses within a three year period in order to graduate.

This program prepares the medical laboratory technician by formal instruction and clinical experience to perform laboratory procedures which aid physicians and pathologists in the diagnosis and treatment of disease in the hospital, clinic, or research laboratory.

Upon completion of this program, students receive Associate of Applied Science Degrees and may be eligible to take national certification examinations such as that administered by the American Society for Clinical Pathology (ASCP) Board of Certification.

Admission Information

The entry date for the MLT program is generally the Fall Semester of each year, but arrangements can sometimes be made for a spring entry also. An alternative curriculum sequence may be arranged for students having completed academic requirements other than MLAB courses. For fall entry, applications should be submitted to the MLT Program Director by March 1 for early acceptance or until class is full for late acceptance. For spring entry, applications should be submitted by November 1 for early acceptance and by January 1 for late acceptance. Applications will be taken until the class is filled. Class size is limited by availability of clinical sites.

Transcripts (college) and TSI assessment test scores should be included with the application.

Admission Criteria

1. The Health Science Division (HSD) application for Medical Laboratory Technology should be submitted to the Program Director.
2. TSI test scores for assessment purposes should be submitted with the HSD application.
3. Overall GPA of 2.0 or higher is required for all college courses completed.
4. Applicants must meet certain essential functions as defined by NAACLS. The nonacademic criteria (essential functions) which all MLT applicants are expected to meet are listed in the MLT-AD program information brochure.
5. Applicants must make an appointment to meet with the Program Director prior to acceptance.

Selection and Acceptance

There are no pre-requisites courses that must be completed prior to acceptance into the MLT program. Applicants are accepted into the program once the Admission Criteria is met until the class is full. The number of students who can be admitted to the MLT Program is limited by the number of available clinical facilities.

When the maximum number is reached, additional applicants will be placed on a waiting list.

Additional Program Information

MLAB 2660 and MLAB 2661, the major clinical components of the program may be offered in both the Fall and Spring Semesters. Students will be assigned to these clinical rotations based on availability of space and GPA of all required MLT courses. Students may be required to commute to a clinical site outside Grayson County if there are not enough local facilities available.

Employees of the Clinical Affiliates serve as Clinical Coordinators and Clinical Instructors.

Prior to clinical course rotations, students must pass a drug screen test and criminal background check (at the student's expense and completed as scheduled through a GC approved company). Criteria that prevent attendance at clinical sites and/or require withdrawal from the course are stipulated in the related GC Health Science policy.

Students who are certified phlebotomists, or have recent documented experience as a phlebotomist may request credit for PLAB1223 and PLAB 1160 or 1260. Upon completion of adequate phlebotomy skills, such credit may be awarded. Each request will be considered individually and must be approved by the MLT Program Director.

Documentation required by the State of Texas to provide proof of Immunization of proof of immunity, results of a TB test, and the completed medical statement, must be submitted prior to start of class.

Proof of current CPR training must be provided before attending clinicals.

The following curriculum is acceptable for first summer session entry with no previously completed college credit. The first MLAB course is offered during the Fall Semester.

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
MLAB 1291	2
MLAB 1201	2
MLAB 1335	3
PLAB 1160	2
ENGL 1301	2
PLAB 1223	2
	15
Second Semester	
MLAB 2331	3
MLAB 1315	3
MLAB 1127	1
MLAB 1311	3
MLAB 1231	2
Humanities/Fine Arts	1
	15
Third Semester	
SPCH 1311, 1315 or 1321	3
BIOL 2404	4
	7
Fourth Semester	
MLAB 2534	4
MLAB 2501	4
MLAB 2338	2
PSYC 2301	3
	13

Fifth Semester

MLAB 2660	6
MLAB 2661	6
<hr/>	
	12

Capstone Requirement: All students must complete the capstone requirement: successfully complete MLAB 2660 and MLAB 2661 prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCl 1301 Introduction to Sociology
SOCl 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

PLAB 1260 - Clinical I

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Includes skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. On-site clinical instruction, supervision, and evaluation of phlebotomy skills learned in PLAB 1223.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lab hours: 6.0

Prerequisites:

- [MLAB 1291](#) - Special Topics MLT

Restrictions:

- Concurrent or previous enrollment in PLAB 1223 required.

- Students who are certified phlebotomists or have recent documented experience as a phlebotomist may request credit for this course. Each request will be considered individually and must be approved by the MLT Program Director. A grade of "C" or better is required for graduation.

Office and Computer Tech

Overview

The development and use of computers in the office has created a need for individuals who are proficient in areas beyond the traditional office skills. Today's office requires individuals who are able to take full advantage of the technology available in order to get the job done quickly and accurately.

The **Associate of Applied Science Degree in Office & Computer Technology** is designed to prepare individuals for the challenges of today's office. Students will obtain the skills and technical knowledge necessary to enter the job market in a variety of office administration positions. The college also offers several certificate options.

The **Administrative Assistant Certificate** and **Medical Administrative Assistant Certificate** prepares students for assisting an executive or professional in decision making, conducting research, meeting and working with the public, and managing the office. The certificates could also feed into the associate degree, if desired.

The **Accounting Office Support Certificate** prepares individuals for careers in the accounting field. This certificate will also feed into the Administrative Assistant certificate if the student desires to increase his or her knowledge in these areas.

The **Applications Software Specialist Certificate** concentrates on computer software used in the office. The student will have a strong working foundation of several software packages currently used in industry today. Software integration will be emphasized. This certificate provides an excellent opportunity for an employee with strong organizational skills who wants to specialize in computer software.

Course Requirements

Grayson County requires a high school diploma or equivalent. The Associate of Applied Science Degree requires successful completion of the TSI requirements. Some of the courses require prerequisites. Refer to the GC catalog for specific information.

Capstone Experience

Graduation with the Associate of Applied Science Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Development). This class must be taken during the semester of graduation.

Local Employers

Cigna, City of Denison, Douglass Distributing, Grayson College, Sherman ISD, Texoma Medical Center, Wilson N. Jones Hospital

AAS Degree Requirements

Associate of Applied Science - Office and Computer Technology

Subject	Semester Hours
First Semester	
ENGL 1301	3
POFT 1301	3
ACNT 1303	3
Social and Behavioral Science Core	3
	12
Second Semester	
ACNT 1304	3
POFT 2312	3
POFI 1301	3
POFI 2301	3
POFT 2303 or ARTC 1325	3

	15
Third Semester	
Math/Life and Physical Science Core	3
SPCH 1311 or 1321	3
Lang, Phil, Culture/Creative Arts Core	3
ITSW 1304	3
ITSC 2321	3
Elective	3
	18
Fourth Semester	
POFT 2331	3
ACNT 1313	3
ITSW 1307	3
POFT 1313 (Capstone)	3
Elective	3
	15

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Certificate Degree Requirements

Accounting Office Support Certificate

Subject	Semester Hours
First Semester	
POFI 1301	3
POFT 1301	2
POFT 2303	2
POFI 2301	3
ACNT 1303	3
ITSW 1304	3
	18
Second Semester	
ACNT 1304	3
ACNT 1313	3
ITSW 1307	3
POFT 2312	3
POFT 1313 (Capstone)*	3
POFT 2331	3
	18
Administrative Assistant Certificate	
Subject	Semester Hours
First Semester	
POFT 1301	3
POFI 2301	3
POFT 2303	2
ACNT 1303	3
	12

Second Semester

POFT 2312	3
POFI 1301	3
ACNT 1304	3
POFT 2331	3
ITSW 1307	3
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	15

Third Semester

ITSW 1304	3
ITSC 2321	3
POFT 1313 (Capstone)*	3
ACNT 1313	3
Elective	3
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	15

Applications Software Specialist Certificate

Subject	Semester Hours
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First Semester

POFT 2303	3
POFT 1301	3
POFI 2301	3
ITSW 1304	3
ARTC 1325	3
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	15

Second Semester

ITSC 2321	3
POFT 2312	3
ITSW 1307	3
POFT 1313 (Capstone)*	3
POFI 1301	3
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	15

Medical Administrative Assistant Certificate

Subject	Semester Hours
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First Semester

POFT 1301	3
HITT 1305	3
POFT 2303	3
POFI 2301	3
POFI 1301	3
<hr/>	
	15

Second Semester

POFT 2312	3
ITSW 1304	3
HITT 1341	3
POFT 2331	3
<hr/>	
	12

Third Semester (Summer I)

HITT 1311	3
HITT 2346	3
<hr/>	
	6

Fourth Semester (Summer II)

HITT 1353	3
<hr/>	
	3

Fifth Semester

POFT 1313 (Capstone)*	3
POFM 1317	3
<hr/>	
	6

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Marketable Skills Award

Accounting Office Support Marketable Skills Award

Subject	Semester Hours
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First Semester	
POFI 1301	3
POFI 2301	3
ITSW 1304	3
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	9

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

POFI 1301 - Computer Applications I

Overview of computer applications including current terminology and technology. Introduction to computer hardware, software applications, and procedures.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

POFI 2301 - Word Processing

In-depth coverage of word processing software focusing on business applications.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 2.0

POFM 1317 - Medical Administrative Support

(FALL ONLY) Instruction in medical office procedures including appointment scheduling, medical records creation and maintenance, telephone communications, coding, billing, collecting, and third party reimbursements.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line mangers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
First Semester	
CHEF 1205*	3
HAMG 1340	3
HAMG 1221	3
ENGL 1301	3
MATH 1332 or 1314	3
	15
Second Semester	
Social/Behavioral Science Core	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 1213	3
HAMG, PSTR, CHEF or FDST Elective	
	15
Third Semester	
SPCH 1311 or 1321	3
CHEF 2231	3
HAMG 2301	3
HAMG 2307	3
Lang, Phil, Culture/Creative ARTS CORE	3
	15
Fourth Semester	
HAMG 2305	3
HAMG 2332	3
HAMG 2337	3
RSTO 1304	3
HAMG 2167	3
CHEF 1314	
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a

prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
First Semester	
CHEF 1205*	2
CHEF 1301	3
HAMG 1221	2
ENGL 1301	3
MATH 1332 or 1314	3
SPCH 1311 or 1321	3
	16
Second Semester	
Lang, Phil, Culture/Creative Arts Core	3
PSTR 1301	3
HAMG 1319	3
CHEF 2231	2
CHEF 1345	3
	14
Third Semester	
HAMG 2301	3
HAMG 1340	3
PSTR 2331	3
HAMG 1324	3
CHEF 1310	3
	15
Fourth Semester	
RSTO 1304	3
CHEF 1302	3
CHEF 1314	3
Social/Behavioral Science Core	3
CHEF 1164	1
IFWA 1210	2
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
First Semester	
HAMG 2301	3
CHEF 1205*	2

HAMG 1221	2
HAMG 1340	3
RSTO 1304	3
HAMG 2307	3
<hr/>	
	16

Second Semester

HAMG 2332	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 2337	3
HAMG 1213	2
<hr/>	
	17

Third Semester

HAMG 2167	1
HAMG 2305	3
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	4

Culinary Arts Certificate

Subject	Semester Hours
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First Semester

CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3
PSTR 1301	3
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	13

Second Semester

CHEF 1345	3
CHEF 2231	2
CHEF 1302	3
HAMG 1319	3
IFWA 1210 or BIOL 1322	2
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	13

Third Semester

CHEF 1314	3
RSTO 1304	3
PSTR 2331	3
CHEF 1310	3
CHEF 1164	1
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	13

Basic Culinary Skills Certificate

Subject	Semester Hours
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First Semester

CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
PSTR 1301	3
EDU 1300/PSYC 1300	3
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	13

Second Semester

CHEF 1345	3
CHEF 1310	3
CHEF 2231	2
RSTO 1304	3
POFT 1120	1
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	12

Catering and Event Planning Certificate

Subject	Semester Hours
First Semester	
TRVM 2333	3
CHEF 1205	2
TRVM 1327	3
CHEF 1301	3
HAMG 1340	3
<hr/>	
	14
Second Semester	
RSTO 2307	3
CHEF 2231	2
CHEF 1310	3
FDST 2433	4
POFT 1120	1
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	13

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

POFT 1120 - Job Search Skills

Skills to seek and obtain employment in business and industry.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Office and Computer Tech

Overview

The development and use of computers in the office has created a need for individuals who are proficient in areas beyond the traditional office skills. Today's office requires individuals who are able to take full advantage of the technology available in order to get the job done quickly and accurately.

The **Associate of Applied Science Degree in Office & Computer Technology** is designed to prepare individuals for the challenges of today's office. Students will obtain the skills and technical knowledge necessary to enter the job market in a variety of office administration positions. The college also offers several certificate options.

The **Administrative Assistant Certificate** and **Medical Administrative Assistant Certificate** prepares students for assisting an executive or professional in decision making, conducting research, meeting and working with the public, and managing the office. The certificates could also feed into the associate degree, if desired.

The **Accounting Office Support Certificate** prepares individuals for careers in the accounting field. This certificate will also feed into the Administrative Assistant certificate if the student desires to increase his or her knowledge in these areas.

The **Applications Software Specialist Certificate** concentrates on computer software used in the office. The student will have a strong working foundation of several software packages currently used in industry today. Software integration will be emphasized. This certificate provides an excellent opportunity for an employee with strong organizational skills who wants to specialize in computer software.

Course Requirements

Grayson County requires a high school diploma or equivalent. The Associate of Applied Science Degree requires successful completion of the TSI requirements. Some of the courses require prerequisites. Refer to the GC catalog for specific information.

Capstone Experience

Graduation with the Associate of Applied Science Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Development). This class must be taken during the semester of graduation.

Local Employers

Cigna, City of Denison, Douglass Distributing, Grayson College, Sherman ISD, Texoma Medical Center, Wilson N. Jones Hospital

AAS Degree Requirements

Associate of Applied Science - Office and Computer Technology

Subject	Semester Hours
First Semester	
ENGL 1301	3

POFT 1301	3
ACNT 1303	3
Social and Behavioral Science Core	3
<hr/>	
12	
<hr/>	
Second Semester	
ACNT 1304	3
POFT 2312	3
POFI 1301	3
POFI 2301	3
POFT 2303 or ARTC 1325	3
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15	
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Third Semester	
Math/Life and Physical Science Core	3
SPCH 1311 or 1321	3
Lang, Phil, Culture/Creative Arts Core	3
ITSW 1304	3
ITSC 2321	3
Elective	3
<hr/>	
18	
<hr/>	
Fourth Semester	
POFT 2331	3
ACNT 1313	3
ITSW 1307	3
POFT 1313 (Capstone)	3
Elective	3
<hr/>	
15	

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Certificate Degree Requirements

Accounting Office Support Certificate

Subject	Semester Hours
<hr/>	
First Semester	
POFI 1301	3
POFT 1301	2
POFT 2303	2
POFI 2301	3
ACNT 1303	3
ITSW 1304	3
<hr/>	
18	
<hr/>	
Second Semester	
ACNT 1304	3
ACNT 1313	3
ITSW 1307	3
POFT 2312	3
POFT 1313 (Capstone)*	3
POFT 2331	3

18

Administrative Assistant Certificate

Subject	Semester Hours
---------	----------------

First Semester

POFT 1301	3
POFI 2301	3
POFT 2303	2
ACNT 1303	3

12

Second Semester

POFT 2312	3
POFI 1301	3
ACNT 1304	3
POFT 2331	3
ITSW 1307	3

15

Third Semester

ITSW 1304	3
ITSC 2321	3
POFT 1313 (Capstone)*	3
ACNT 1313	3
Elective	3

15

Applications Software Specialist Certificate

Subject	Semester Hours
---------	----------------

First Semester

POFT 2303	3
POFT 1301	3
POFI 2301	3
ITSW 1304	3
ARTC 1325	3

15

Second Semester

ITSC 2321	3
POFT 2312	3
ITSW 1307	3
POFT 1313 (Capstone)*	3
POFI 1301	3

15

Medical Administrative Assistant Certificate

Subject	Semester Hours
---------	----------------

First Semester

POFT 1301	3
HITT 1305	3
POFT 2303	3
POFI 2301	3
POFI 1301	3

15

Second Semester

POFT 2312	3
ITSW 1304	3
HITT 1341	3
POFT 2331	3
<hr/>	
	12

Third Semester (Summer I)

HITT 1311	3
HITT 2346	3
<hr/>	
	6

Fourth Semester (Summer II)

HITT 1353	3
<hr/>	
	3

Fifth Semester

POFT 1313 (Capstone)*	3
POFM 1317	3
<hr/>	
	6

Students entering this program need to have basic computer and keyboarding skills. Contact advisor for more details.

*Capstone Requirement: All students must complete the required capstone course Professional Development (POFT 1313) during the last semester (unless the last semester is summer) to satisfy the requirements for a Capstone experience with a "C" or better. The capstone course may not be substituted.

Marketable Skills Award

Accounting Office Support Marketable Skills Award

Subject	Semester Hours
<hr/>	
First Semester	
POFI 1301	3
POFI 2301	3
ITSW 1304	3
<hr/>	
	9

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I
- BIOL 1307/1107 Biology for Science Majors II
- BIOL 1308/1108 Biology for Non-Science Majors I
- BIOL 1309/1109 Biology for Non-Science Majors II
- BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOC1 1301 Introduction to Sociology
SOC1 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

POFT 1301 - Business English

Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

POFT 1313 - Professional Development for Office Personnel

Preparation for the work force including ethics, interpersonal relations, professional attire, and career advancement

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

POFT 2303 - Speed and Accuracy Building

Review, correct, and improve keyboarding techniques for the purpose of Increasing speed and improving accuracy.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

POFT 2312 - Business Correspondence & Communication

Development of writing and presentation skills to produce effective business communications.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

POFT 2331 - Administrative Systems

(SPRING ONLY). Advanced concepts of project management and office procedures utilizing integration of previously learned office skills

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line mangers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
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First Semester	
----------------	--

CHEF 1205*	3
HAMG 1340	3
HAMG 1221	3
ENGL 1301	3
MATH 1332 or 1314	3
<hr/>	
15	
<hr/>	
Second Semester	
Social/Behavioral Science Core	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 1213	3
HAMG, PSTR, CHEF or FDST Elective	
<hr/>	
15	
<hr/>	
Third Semester	
SPCH 1311 or 1321	3
CHEF 2231	3
HAMG 2301	3
HAMG 2307	3
Lang, Phil, Culture/Creative ARTS CORE	3
<hr/>	
15	
<hr/>	
Fourth Semester	
HAMG 2305	3
HAMG 2332	3
HAMG 2337	3
RSTO 1304	3
HAMG 2167	3
CHEF 1314	
<hr/>	
15	

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
<hr/>	
First Semester	
CHEF 1205*	2
CHEF 1301	3
HAMG 1221	2
ENGL 1301	3
MATH 1332 or 1314	3
SPCH 1311 or 1321	3
<hr/>	
16	
<hr/>	
Second Semester	
Lang, Phil, Culture/Creative Arts Core	3
PSTR 1301	3
HAMG 1319	3

CHEF 2231	2
CHEF 1345	3
<hr/>	
	14

Third Semester

HAMG 2301	3
HAMG 1340	3
PSTR 2331	3
HAMG 1324	3
CHEF 1310	3
<hr/>	
	15

Fourth Semester

RSTO 1304	3
CHEF 1302	3
CHEF 1314	3
Social/Behavioral Science Core	3
CHEF 1164	1
IFWA 1210	2
<hr/>	
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
<hr/>	
First Semester	
HAMG 2301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3
RSTO 1304	3
HAMG 2307	3
<hr/>	
	16
<hr/>	
Second Semester	
HAMG 2332	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 2337	3
HAMG 1213	2
<hr/>	
	17
<hr/>	
Third Semester	
HAMG 2167	1
HAMG 2305	3
<hr/>	
	4

Culinary Arts Certificate

Subject	Semester Hours
<hr/>	
First Semester	

CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3
PSTR 1301	3
<hr/>	
	13

Second Semester

CHEF 1345	3
CHEF 2231	2
CHEF 1302	3
HAMG 1319	3
IFWA 1210 or BIOL 1322	2
<hr/>	
	13

Third Semester

CHEF 1314	3
RSTO 1304	3
PSTR 2331	3
CHEF 1310	3
CHEF 1164	1
<hr/>	
	13

Basic Culinary Skills Certificate

Subject	Semester Hours
---------	----------------

First Semester

CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
PSTR 1301	3
EDU 1300/PSYC 1300	3
<hr/>	
	13

Second Semester

CHEF 1345	3
CHEF 1310	3
CHEF 2231	2
RSTO 1304	3
POFT 1120	1
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	12

Catering and Event Planning Certificate

Subject	Semester Hours
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First Semester

TRVM 2333	3
CHEF 1205	2
TRVM 1327	3
CHEF 1301	3
HAMG 1340	3
<hr/>	
	14

Second Semester

RSTO 2307	3
CHEF 2231	2
CHEF 1310	3
FDST 2433	4
POFT 1120	1

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCl 1301 Introduction to Sociology
SOCl 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

PSTR 2331 - Fundamentals of Baking

). Fundamentals of baking including dough, quick breads, pies, cakes, cookies, tarts, and doughnuts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products. Professional chef uniform and kitchen tools required. Lab required.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
- [PSTR 2331](#) - Fundamentals of Baking

PSTR 2331 - Advanced Pastry Shop

A study of classical desserts, French and international pastries, hot and cold desserts, ice creams and ices, chocolate work, and decorations. Emphasis on advanced techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Psychology

Overview

For students planning to pursue a Psychology major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in General Studies** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AS Degree Requirements

Associate of Science - General Studies

The General Studies AS degree at Grayson College is designed for transfer into STEM, Social or Behavioral Sciences, Humanities, Language or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students desired major. For a STEM major, we recommend taking elective courses in Science or Mathematics.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	14
Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
	15

Fourth Semester

GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
<hr/>	
	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
ENGL 2311 Technical & Business Writing
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II

BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

PSYC 1100 - Learning Framework

A study of the: research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. Cross-listed as EDUC 1100.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

Restrictions:

- Only one of the cross-listed courses can be taken for credit.

PSYC 1300 - Learning Frameworks

A study of the (1) research and theory in the psychology of learning, cognition, and motivation, (2) factors that impact learning, and (3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Only one of the cross-listed courses can be taken for credit.

PSYC 2301 - General Psychology

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

PSYC 2306 - Human Sexuality

This course will provide an overview of the broad field of human sexuality. Topics will be covered from various perspectives – biological, sociological, anthropological, etc., but will focus primarily on the psychological perspective. The goal is for each student to learn factual, scientifically-based information that will provoke thought and contribute to his/her own decision-making on sexual issues outside of the classroom. Cross-listed as SOCI 2306.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Restrictions:

- Only one of the cross-listed courses can be taken for credit.
-

PSYC 2314 - Lifespan, Growth & Development.

Life-Span Growth and Development is a study of social, emotional, cognitive and physical factors and influences of a developing human from conception to death.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

PSYC 2315 - Psychology of Adjustment

Study of the processes involved in adjustment of individuals to their personal and social environments.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Prerequisites:

- [PSYC 2301](#) - General Psychology
-

PSYC 2319 - Social Psychology

Study of individual behavior within the social environment. May include topics such as the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. Cross-listed as SOCI 2326.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Prerequisites:

- [PSYC 2301](#) - General Psychology

Restrictions:

- Only one of the cross-listed courses can be taken for credit.

Advanced Manufacturing

Overview

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303	3
EDUC 1300	3
Social Behavioral Sciences Core	3
MATH 1332	3
	12
Second Semester	
MCHN 1320	3
ELPT 1311	3
MCHN 1302	3
ENGL 2311	3
Lang, Phil, Culture/Arts Core	3
	15
Third Semester	
MCHN 1371	3
QCTC 1343	3
AS Life & Phys Science Core	3
AS Life & Phys Science Core Lab	1
MCHN 1438	4
	14
Fourth Semester	
ELPT 2319	3
MCHN 1326	3
INMT 1391	3
	9
Fifth Semester (May Mini & Summer)	
ELPT 1441	4
INMT 2688	6
	10

Notes and Content

Notes and Content

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
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First Semester

TECH 1303 Technical Calculations	3
<hr/>	
	3

Second Semester

MCHN 1320 Prec Tools & Measure	3
<hr/>	
	3

Third Semester

ELPT 1311 Basic Electrical Theory	3
MCHN 1302 Print Rdng for Mchn	3
<hr/>	
	6

Fourth Semester

MCHN 1371 MSSC Local Needs	3
QCTC 1343 Quality Assurance	3
<hr/>	
	6

Fifth Semester

MCHN 1438 Basic Mch Shop I	4
<hr/>	
	4

Sixth Semester

ELPT 2319 PLC'S I	3
MCHN 1326 CAM	3
<hr/>	
	6

Seventh Semester (May Mini & Summer)

INMT 1391 Spec Top in Mfg Technology	3
ELPT 1441 Motor Controls	4
INMT 2688 Internship Mfg Tech	6
<hr/>	
	13

Notes and Content

Notes and Content

QCTC 1343 - Quality Assurance

Principles and applications designed to introduce quality assurance. Covers the benefits and applications of quality assurance, proficiency in the use of the tools of quality assurance, application of sampling techniques, evaluation of quality assurance standards, performance of system audits and implementation of a corrective and preventative action plan.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Radiologic Technology

Overview

The Radiography program allows students to participate in classroom instruction, laboratory demonstration and practice and perform radiographic procedures, and clinical experiences.

The program is recognized by the American Registry of Radiologic Technology. Following program completion, the graduate is eligible to take the American Registry of Radiologic Technologists Examination (ARRT) to become a Registered Radiologic Technologist. Upon becoming ARRT (R), the graduate automatically qualifies to be a Texas

Certified Medical Radiologic Technologist. The GC program will assist all graduating students with the application processes for the ARRT Board Exam and the Texas MRT Certification.

Important Information for Applicants

In order to accomplish the objectives of this program, the student must be able to meet the Occupational Performance Requirements of Radiologic Technologists. In order to accomplish the objectives of the Radiography program, students must have:

- Visual acuity, with corrective lenses to identify cyanosis, absence of respiratory movement in patients, and to read small print on medication containers, physicians' orders, monitors, gauges, and equipment calibrations.
- Hearing ability, with auditory aids to understand the normal speaking voice without viewing the speaker's face and to hear monitor alarms, emergency signals, call bells, and stethoscope sounds originating from a patient's blood vessels, heart, lung, and abdomen.
- Physical ability to: Stand and walk for prolonged periods of time; perform cardiopulmonary resuscitation; lift patients to move onto and off of the radiographic table; lift and manipulate patients in the radiographic room as well as in hospital beds for proper placement of radiographic film holders; move from room to room, maneuvering in limited spaces and move, push, maneuver heavy, mobile radiographic machines into and out of patient rooms, surgery, intensive care units, and all other patient areas.
- Strength to lift approximately a minimum of 30 lbs. and walk a minimum distance of approximately 30 feet.
- Shoulder range of motion to reach up, push, pull, and maneuver radiographic equipment with overhead suspension and manually position, tilt, and angle radiographic tube housings in accurate relationship to the patients and image receptors.
- Speaking ability to communicate effectively in verbal and written form.
- Ability to speak clearly and succinctly when explaining procedures, describing patient conditions, and giving directions to the patient.
- Fine motor skills to write legibly and correctly in the legal documentation of radiographic procedures and patient conditions/occurrences.
- Manual dexterity to use sterile techniques, to insert catheters, and to prepare and administer contrast media and medications (IV and IM) as directed by a physician.
- Ability to function safely and accurately under stressful conditions and to be able to quickly adapt to rapidly changing clinical situations involving patient care

The American Registry of Radiologic Technologists requires that all candidates be in accordance with very strict guidelines. In an effort to establish, secure, and maintain an improved professional reputation for Radiographers, within the healthcare environment, the ARRT demands close adherence to strict ethical standards. Radiography School Applicants with a criminal record are encouraged to request a pre-application review of eligibility to be conducted by the ARRT to obtain a ruling on his/her eligibility for certification and registration. The pre-application form can be found at the ARRT website, www.arrt.org. For ARRT purposes any of the following situations constitute the same as a conviction:

- A charge or conviction for an offense which is classified as a misdemeanor or felony,
- A plea of guilty to an offense which is classified as a misdemeanor or felony
- A plea of nolo contendere (no contest) to an offense which is classified as a misdemeanor or felony
- Any situation in which the result is a deferred or withheld adjudication
- Any suspended or withheld sentence.

Admission Criteria and Selection

Applications for admission to the Radiologic Technology program, along with GED or high school transcripts and transcripts from each college or university attended, are due in the Health Sciences Office by May 1. The applicant is responsible for submitting all the required transcripts and other documentation to the Radiology School. Documents submitted after 4 p.m. on May 1 will be filed for application to the next school year. Applicants are required to take an admission test related to vocabulary skill, reading comprehension, math and anatomy and physiology, and achieve a passing score of 75 or greater.

Pre-Acceptance Requirements:

Before application files can be evaluated, the following documentation must be in the applicant's folder no later than May 1 of the year for which you are applying:

- Copy of High School Diploma or passing GED Scores
- Documentation of a completed application to Grayson College
- Completed GC Health Sciences application
- Student letter of intent
- Official transcripts
- Admission test scores
- Minimum GPA of 2.5 with a grade of "C" or higher in all required courses
- Completion of all prerequisite coursework including Anatomy & Physiology I and II, General Psychology, English I, and a Fine Arts / Humanities Core course

- Documentation of having completed all required immunizations
- Record of physician's pre-entrance medical statement
- Proof of mandatory attendance of Radiology Information Meeting

Applicant files that are complete with the items listed above will then be evaluated for documentation of the following factors in this sequential order of priority:

- Grade point average stated on all transcripts
- Grades received for each science, medical, or other courses that may be relative to healthcare services
- Technical, trade, or military training received
- Resume/work history/life experiences as they relate to basic knowledge of the radiology field, healthcare services, and/or work ethics
- Three (3) letters of reference, preferably other than family
- Applicant's written statement of "Why I have chosen Radiologic Technology as a career." Indicating awareness of the Radiography field.

All applicant transcripts are rated, using the following point system:

- 3 points for a final grade of "A" in theory and/or lab course
- 2 points for a final grade of "B" in theory and/or lab course
- 1 point for a final grade of "C" in theory and/or lab course

Points are given for the score achieved on the admission test:

- 3 points for a test score of 90-100
- 2 points for a test score of 80-89
- 1 point for a test score of 75-79

Consideration is also given to documentation of:

- Applicant's resume/work history
- Any volunteer work in radiology or other healthcare field
- Trade school and/or technical education completed.
- Certifications, and/or licensure earned that may enhance the applicant's skills in Radiography.

Non-academic experiences/attributes are quantified, using the following point system:

- 3 points for high significance / relativity to radiology field
- 2 points for medium significance / relativity to radiology field
- 1 point for slight significance / relativity to radiology field

Prior to clinical course rotations, students must pass a drug screen test and criminal background check scheduled through a GC approved company.

Candidates will be notified in writing via US mail.

Required Immunizations

All students must submit a copy of the following immunizations with a valid stamp or signature, signed statement from a physician, or lab report indicating serologic immunity. Please note that some of these immunizations take up to six months to complete. Immunizations must be started in time to complete the series before the FIRST DAY OF CLASS. If unable to complete the series before beginning of class, the applicant is not eligible for admission.

1. Tetanus / Diphtheria / Pertussis (Tdap) - One dose of the Tetanus / diphtheria / pertussis (Tdap) immunization within the last 10 years.
2. Measles, Mumps, Rubella (MMR) (Immunization or blood test proving immunity) - If born after January 1, 1957, must have proof of two doses of the MMR vaccine administered on or after the 1st birthday and at least 30 days apart – or – proof of serologic immunity.
3. Varicella (Chickenpox) (Immunization or blood test proving immunity) - Series of two Varicella vaccines at least 30 days apart – or – proof of serologic immunity.
4. Hepatitis B (Immunization or blood test proving immunity - Series of three Hepatitis B vaccines – or proof of serologic immunity)
5. Influenza Vaccine - Annual influenza immunization as recommended by the CDC in the fall of each year.

Due to compliance with clinical facility requirements and the Texas Department of Health recommendations, GC Health Science programs may not waiver immunization requirements for any reason. If immunizations are not complete, application to the program must be delayed.

Copies of records from physician's offices, public health department, public schools, other colleges and the military are acceptable. Students should provide a copy of the records. Please do not turn in the originals.

Pass, Fail, Graduation Rates

Year	Graduation Rate	Employment Rate	Pass Rate
2013-2014	80%	93.75%	81%
2014-2015	89.47%	100%	75%
2015-2016	95.24%	95%	80%
2016-2017	94.74%	N/A	N/A

Application Information

Deadline: May 1

Packet:

- Packets are only available by pickup at the Mandatory Information Session
- When: 3rd Wednesday of every month at 1pm in
- Where: Health Science 200 (except August & December)

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
PREREQUISITES	
BIOL 2301	3
BIOL 2101	1
PSYC 2301	3
Huma / Arts Core	3
<hr/>	
10	
PREREQUISITES	
BIOL 2302	3
BIOL 2102	1
ENGL 1301	3
<hr/>	
7	
First Semester	
RADR 1301	3
RADR 1303	3
RADR 1311	3
RADR 1160	1
<hr/>	
10	
Second Semester	
RADR 1213	2
RADR 2401	4
RADR 2313	3
RADR 1361	3
<hr/>	
12	
Summer (12 Weeks)	
RADR 1262	2
<hr/>	
2	
Third Semester	
RADR 2217	2
RADR 2305	3

RADR 2463	4
RADR 2309	3
<hr/>	
	12

Fourth Semester

RADR 2233	2
RADR 2235	2
RADR 2431	4
RADR 2367	3
<hr/>	
	11

Capstone Requirement: All students must complete the capstone requirement: successful completion of RADR 2235 prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCl 1301 Introduction to Sociology
SOCl 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

RADR 1160 - Clinical I

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 1.0

Lab hours: 4.0

Restrictions:

- Concurrent enrollment: RADR 1301, 1303, 1311.
 - Must be taken in sequence as listed in degree plan.
-

RADR 1213 - Principles of Radiographic Imaging I.

An introduction to radiographic image qualities and the effects of exposure variables upon these qualities.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2401, 2313, 1361.
 - Must be taken in sequence as listed in degree plan.
-

RADR 1262 - Clinical III

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lab hours: 12.0

Restrictions:

- Huma / Fine Arts Core, RADR 1301, 1303, 1311, 1160, 1213, 2401, 2313, 1361.
 - Must be taken in sequence as listed in degree plan.
-

RADR 1301 - Introduction to Radiography

An introduction to radiation protection, professional ethics, darkroom procedures, medical terminology, prime exposure factors, and technical factors of film quality; Image receptors.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 1303, 1311, 1160.
 - Must be taken in sequence as listed in degree plan.
-

RADR 1303 - Patient Care

An introduction in patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 1301, 1311, 1160.
 - Must be taken in sequence as listed in degree plan.
-

RADR 1311 - Basic Radiographic Procedures.

An introduction to radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 1301, 1303, 1160.
 - Must be taken in sequence as listed in degree plan.
-

RADR 1361 - Clinical II

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lab hours: 16.0

Restrictions:

- Concurrent Enrollment: RADR 1213, 2313, 2401
 - Must be taken in sequence as listed in degree plan.
-

RADR 2217 - Radiographic Pathology

A presentation of the disease process and common diseases and their appearance on medical images.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2305, 2463, 2309.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2233 - Advanced Medical Imaging

An exploration of specialized imaging modalities.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0
Restrictions:

- Concurrent Enrollment: RADR 2235, 2431, 2367.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2235 - Radiologic Technology Seminar

A capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0
Restrictions:

- Concurrent Enrollment: RADR 2233, 2431, 2367.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2305 - Principles of Radiographic Imaging II

A continuation of the study of radiographic imaging technique formulation, image quality assurance, and the synthesis of all variables in image production. Lab is included.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 1.0
Restrictions:

- Concurrent Enrollment: RADR 2217, 2463, 2309
 - Must be taken in sequence as listed in degree plan.
-

RADR 2309 - Radiographic Imaging Equipment

A study of the radiographic equipment, components, accessories and the physics that apply to x-ray production. The course includes the basic x-ray circuits, and the relationship of equipment components to the outcome of the imaging process.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0
Restrictions:

- Concurrent Enrollment: RADR 2217, 2305, 2463.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2313 - Radiation Biology and Protection

A study of the effects of radiation exposure on biological systems, typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Restrictions:

- Concurrent Enrollment: RADR 1213, 2401, 1361.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2367 - Practicum

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lab hours: 24.0

Restrictions:

- Concurrent Enrollment: RADR 2233, 2235, 2431.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2401 - Intermediate Radiographic Procedures

A continuation of the study of the proper manipulation of radiographic equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of anatomy.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 4.0

Restrictions:

- Concurrent Enrollment: RADR 1213, 2313, 1361.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2431 - Advanced Radiographic Procedures

Continuation of positioning; alignment of the anatomical structure and equipment, evaluation of images for proper demonstration of anatomy and related pathology. Lab included.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Restrictions:

- Concurrent Enrollment: RADR 2233, 2235, 2367.
 - Must be taken in sequence as listed in degree plan.
-

RADR 2463 - Clinical IV

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lab hours: 24.0

Restrictions:

- Concurrent Enrollment: RADR 2217, 2305, 2309.
 - Must be taken in sequence as listed in degree plan.
-

Nursing, Associate Degree (RN)

Overview - RN

The Nursing program provides an integrated nursing curriculum that assists students in acquiring the knowledge and skills necessary to function as beginning practitioners of nursing. The curriculum includes classroom, skills lab, and clinical courses. Students must satisfactorily complete all the nursing courses in each semester concurrently in order to progress to the next semester of the program, and all semesters must be taken in sequence.

Upon completion of the program of study, the student will have earned an **Associate Degree in Nursing**. Graduates of the program may then apply to the Board of Nursing to take the licensure exam to become a registered nurse.

The program is approved by the Texas Board of Nursing (BON)* and accredited by the Accreditation Commission for Education in Nursing (ACEN).**To qualify to take the licensing exam, students must meet eligibility requirements stipulated by the Board of Nursing. Applicants who have reason to believe they may be ineligible to take the licensing exam may petition the BON for a declaratory order. This should be done prior to entering the nursing program, since these eligibility issues also prevent the student from enrolling in the clinical courses. Information about eligibility is available in the RN Information Packet and on the website for the Texas Board of Nursing.

Detailed information about the program is provided in an information packet, available by sending an email request to nursing@grayson.edu. The applicant should request the RN Information Packet. This packet will be sent to the applicant via email. Completion of this information packet is required for all applicants to the program.

The following general information about the nursing program is current at the time of printing, but all information is subject to change without notice or obligation.

Core Performance Standards/Physical & Mental Capabilities

In order to accomplish the objectives of the program, students must be able to meet certain core performance standards. These standards are listed in the RN Information Packet.

Admission Information

Admission to the nursing program is selective, with registration in nursing courses by permission only. Admission to the college does not guarantee admission to the nursing program. To be considered for acceptance into the program, applicants must submit all required application information by the deadlines posted in the RN Information Packet. Minimum admission requirements include the following:

- Admission to Grayson College.
- Completion of the RN Information Packet (available by emailing nursing@grayson.edu).
- HESI Admission test score of 75 or higher on cumulative total of required sections. (May be taken twice in a 12 month period from the first testing date; and there must be 5 years or less from time test was taken to the date of admission into the nursing program).
- High School degree or GED.
- College GPA (cumulative) minimum of 2.5.
- Completion of the pre-requisite math course (MATH 1314 – College Algebra) or (MATH 1342 – Statistics).

- Completion of Anatomy and Physiology courses I & II (8 college credit hours) with a grade of C or better within first three attempts (including withdrawals). Science courses must have been taken and completed within the past five years.
- Completion of required immunizations.

All documentation related to these admission requirements should be submitted to the Health Science Office by the posted deadline. Applications will not be accepted until the student has passed the HESI Admission Test. Detailed information about the test is provided in the RN Information Packet.

Required Immunizations

All students must submit a copy of the following immunizations with a valid stamp or signature, signed statement from a physician, or lab report indicating serologic immunity. Please note that some of these immunizations take up to six months to complete. Immunizations must be started in time to complete the series before the FIRST DAY OF CLASS. If unable to complete the series before beginning of class, the applicant is not eligible for admission.

1. Tetanus / Diphtheria / Pertussis (Tdap) - One dose of the Tetanus / diphtheria / pertussis (Tdap) immunization within the last 10 years.
2. Measles, Mumps, Rubella (MMR) (Immunization or blood test proving immunity) - If born after January 1, 1957, must have proof of two doses of the MMR vaccine administered on or after the 1st birthday and at least 30 days apart – or – proof of serologic immunity.
3. Varicella (Chickenpox) (Immunization or blood test proving immunity) - Series of two Varicella vaccines at least 30 days apart – or – proof of serologic immunity.
4. Hepatitis B (Immunization or blood test proving immunity) - Series of three Hepatitis B vaccines – or proof of serologic immunity
5. Influenza Vaccine - Annual influenza immunization as recommended by the CDC in the fall of each year.

Due to compliance with clinical facility requirements and the Texas Department of Health recommendations, GC Health Science programs may not waiver immunization requirements for any reason. If immunizations are not complete, application to the program must be delayed.

Copies of records from physician's offices, public health department, public schools, other colleges and the military are acceptable. Students should provide a copy of the records. Please do not turn in the originals.

Selection and Acceptance Procedure (Point system)

1. Applications are reviewed for required documentation (after submission deadlines) by the ADN Admissions Committee. Only those with complete files will be considered for admission.
2. Applicants with incomplete files will be kept for one additional admission period.
3. Students with the highest points will be selected first. In the case where applicants having equal points must be chosen for limited space availability, the selection will be made by the Admissions committee and/or Program Director.
4. Applicants will be notified via email regarding selection or non-selection within six weeks of final deadline date. Final acceptance is contingent upon completion of final acceptance requirements, listed below:
5. Applicants with complete files will be evaluated for selection by a point system. A grade of "C" or better must be obtained in all required courses.
 - # Required science courses (Microbiology, and Anatomy & Physiology I & II) earn points based on grade received. (Maximum = 18 points)
 - # A = 6 points
 - # B = 4 points
 - # C = 2 points
 - # Required academic courses earn one (1) point for each course completed with a "C" or better (English Composition I, General Psychology, Language/Philosophy/Culture/Creative Arts Core, Algebra/Statistics, and Life Span Psychology). (Maximum = 5 points)
 - # Evolve Admission Test (Maximum = 3 points)
 - # 89.5 – 100 = 3 points
 - # 79.5 – 89.4 = 2 points
 - # 74.5 – 79.4 = 1 point
 - # < 74.4 = ineligible for admission into the ADN program
 - # Grayson College Service Area residency (Maximum = 2 points)
 - # The total maximum number of points that can be earned is 28 points

Final Acceptance Requirements (Following notification of admission)

1. Complete background checks required by the Board of Nursing within the time frame specified in the acceptance letter. Failure to do so will result in loss of accepted status.

2. Return form verifying intent to accept or decline admission.
3. Complete mandatory orientation requirements.
4. Pass a urine drug screen (as stipulated by the nursing program).
5. Pass an additional background check (as stipulated by the nursing program).
6. Obtain CPR certification. (American Heart; Healthcare Provider level with a face to face demonstration check off).
7. Submit proof of a current negative TB (tuberculosis) test or negative chest x-ray.
8. Obtain annual influenza vaccination as recommended by the CDC in the fall of each year.
9. Obtain a physical exam from a healthcare provider (form provided with acceptance packet).

Transfer of College Coursework

Students who desire admission via transfer to GC must adhere to the GC course transfer policies outlined in the *GC Student Handbook*. This includes submitting official copies of transcripts from each college or university previously attended to the Office of Admissions and Records and a copy of the transcripts to the ADN program. The Office of Admissions and Records will not send a copy to the ADN office. Prerequisite and co-requisite general education courses will be accepted for transfer and application toward the Associate of Applied Science Degree in Nursing if the course is evaluated as equivalent to the required course at GC. Nursing courses are accepted for transfer only with prior approval of the ADN Program Director. Students wishing to transfer nursing courses should request an Information Packet at nursing@grayson.edu. Copies of course syllabi from all previous nursing courses must be submitted to the ADN Program Director to determine eligibility for transfer. Applicants must also provide a letter from the previous nursing program director stating that the applicant is currently passing and in good standing.

NCLEX-RN Pass Rates

Year	Grayson College Pass Rate	Texas Pass Rate	National Pass Rate
2016	86.15%	87.14%	84.3%
2015	86.44%	85.22%	84.18%
2014	78.79%	81.02%	81.74%
2013	90.08%	83.93%	84.29%
2012	91.13%	90.7%	90.22%

Grayson College 3 Year mean pass rate = 83.79%

Texas 3 year mean pass rate = 84.46%

Nation 3 year mean pass rate = 83.41%

Program Completion Rates

Admission Year	Students Admitted	Completion in 150% time
2012	124	89.52%
2013	142	86.62%
2014	156	82.69%
2015	146	Still in progress

Job Placement Rate Data from Texas Higher Education Coordinating Board

Year	Placement Percentage
2010/2011	98.3%
2012/2013	97.5%
2013/2014	93.89%
2014/2015	Unavailable
2015/2016	Unavailable
2016/2017	Unavailable

Contact information regarding program approval and accreditation:

**Accreditation Commission for
Education in Nursing**
33 Peachtree Road NE, Suite 850
Atlanta, GA 30326
(404) 975-5000
<http://www.acenursing.org>

Texas Board of Nursing
333 Guadalupe Street #3-460
Austin, TX 78701
(512) 305-7400
<http://www.bon.state.tx.us>

Application Information

Deadline: Jan. 31, 2018 (for Fall 2018) and May 1, 2018 (for Spring 2019)

Packet: [RN information packet](#), [TE information packet](#)

Outcomes

NCLEX-RN Pass Rates

Year	Grayson College Pass Rate	Texas Pass Rate	National Pass Rate
2016	86.15%	87.14%	84.3%
2015	86.44%	85.22%	84.18%
2014	78.79%	81.02%	81.74%
2013	90.08%	83.93%	84.29%
2012	91.13%	90.7%	90.22%

Grayson College 3 year mean pass rate = 83.79%

Texas 3 year mean pass rate = 84.4%

National 3 year mean pass rate = 83.41%

Program Completion Rates

Admission Year	Students Admitted	Completion in 150% time
2012	124	89.52%
2013	142	86.62%
2014	156	82.69%
2015	146	Still in progress

Job Placement Rate Data from Texas Higher Education Coordinating Board

Year	Placement Percentage
2010/2011	98.3%
2012/2013	97.5%
2013/2014	93.89%
2014/2015	Unavailable
2015/2016	Unavailable
2016/2017	Unavailable

ADN Degree

Associate Degree Nursing

Subject	Semester Hours
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PREREQUISITES

BIOL 2101 or 2301 and 2101	4
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4

PREREQUISITES	
BIOL 2404 or 2302 and 2102	4
MATH 1314 or 1342	3
	7
First Semester	
RNSG 1423	4
RNSG 1119	1
RNSG 1360	3
BIOL 2420 or 2320 and 2120	4
PSYC 2301	3
	15
Second Semester	
RNSG 2404	4
RNSG 1144	1
RNSG 1461	4
ENGL 1301	3
	12
Third Semester (Summer I)	
Lang/Phil/Culture/Creative Arts Core	3
	3
Fourth Semester (Summer II)	
PSYC 2314	3
	3
Fifth Semester	
RNSG 2414	4
RNSG 2462	4
	8
Sixth Semester	
RNSG 2435	4
RNSG 2463	4
	8

Capstone Requirement: Successful completion of RNSG 2435 and 2463.

Overview - TE Option

The Nursing program facilitates upward educational mobility for the licensed vocational/practical nurse by offering advanced placement into the nursing program through two transitional entry courses (RNSG 1413 and RNSG 1227).

These courses are offered as hybrid courses, combining online and classroom learning and must be taken and passed concurrently to progress to the Nursing 3 semester. Students may only take the TE courses one time. If unsuccessful in one or both of the TE courses, eligible students may apply for admission to Nursing 1 or 2 in the generic program.

Upon successful completion of the two TE courses, students receive 11 semester credits for prior vocational nursing courses. TE students then continue in the nursing program following the traditional ADN course schedule for the third and fourth semesters. Grading and progression policies are the same for all students in the nursing program regardless of entry as a traditional or TE student.

Detailed information about the program is provided in a TE information packet, available by sending an email request to nursing@grayson.edu. The applicant should request the Transitional Entry Nursing Information Packet. This packet will be sent to the applicant via email. Completion of this information packet is required for all applicants to the program.

The following general information about the TE program is current at the time of printing, but all information is subject to change without notice or obligation.

Admission Information

Admission to the Nursing program is selective, with registration in TE nursing courses by permission only. Admission to the college does not guarantee admission to the program. To be considered for acceptance into the program, applicants must submit all required application information by the deadlines posted in the Information Packet. **Minimum admission requirements include the following:**

- Admission to Grayson College.
- Completion of the TE Information Packet (available by emailing nursing@grayson.edu).
- HESI Admission test score of 75 or higher on cumulative total of required sections. (May be taken twice in a 12 month period from the first testing date; and there must be 5 years or less from time test was taken to the date of admission into the nursing program).
- High School degree or GED.
- College GPA (cumulative) minimum of 2.5.
- Satisfactory completion (grade of "C" or better) of the program prerequisites required for admission and required co-requisite courses, including: Anatomy and Physiology courses 1 & 2 and Microbiology within three attempts and within the past 10 years; General Psychology, Lifespan Growth and Development, English I, and Math (College Algebra or Statistics).
- Completion of required immunizations. (See Immunization Requirements under the Associate Degree Nursing section). Some of these immunizations are taken as a series and may take up to 6 months to complete.
- Submission of copy of current VN license
- Transcript showing successful completion of a Vocational/Practical Nursing Program
- Letter from current employer stating length and type of employment (one year of clinical experience as an LVN/ LPN is preferred)
- All documentation related to these admission requirements should be submitted to the Health Science Office by the posted deadline. Applications will not be accepted until the student has passed the HESI Admission Test. Detailed information about the test is provided in the TE Nursing Program Information Packet.

Selection and Acceptance Procedure (Point system)

- Applications are reviewed for required documentation (after submission deadlines) by the ADN Admissions Committee. Only those with complete files will be considered for admission.
- Applicants with incomplete files will be kept for one additional admission period.
- Students with the highest points will be selected first. In the case where applicants having equal points must be chosen for limited space availability, the selection will be made by the Admissions committee and/or Program Director.
- Applicants will be notified via email regarding selection or non-selection within six weeks of final deadline date. Final acceptance is contingent upon completion of final acceptance requirements, listed below:
- Applicants with complete files will be evaluated for selection by a point system. A grade of "C" or better must be obtained in all required courses.
 - # Required science courses (Microbiology, and Anatomy & Physiology I & II) earn points based on grade received. (Maximum = 18 points)
 - # For 4 credit hour courses
 - # A = 6 points
 - # B = 4 points
 - # C = 2 points
 - # **For each separate theory/lab course**
 - # **A = 3 points**
 - # **B = 2 points**
 - # **C = 1 point**
 - # Required academic courses earn one (1) point for each course completed with a "C" or better (English Composition I, General Psychology, Life Span Growth and Development, Algebra/Statistics and Language/Philosophy/Culture/Creative Core Course). (Maximum = 5 points)
 - # Hesi Admission Test (Maximum = 3 points)
 - # 89.5 – 100 = 3 points
 - # 79.5 – 89.4 = 2 points
 - # 74.5 – 79.4 = 1 point
 - # < 74.4 = ineligible for admission into the ADN program
 - # Grayson College Service Area residency (Maximum = 2 points)
 - # The total maximum number of points that can be earned is 28 points

Final Acceptance Requirements (Following notification of admission)

- Complete background checks required by the Board of Nursing within the time frame specified in the acceptance letter. Failure to do so will result in loss of accepted status.
- Return form verifying intent to accept or decline admission.

- Complete mandatory orientation requirements.
- Pass a urine drug screen (as stipulated by the nursing program).
- Pass an additional background check (as stipulated by the nursing program).
- Obtain CPR certification. (American Heart; Healthcare Provider level with a face to face demonstration check off).
- Submit proof of a current negative TB (tuberculosis) test or negative chest x-ray.
- Obtain annual influenza vaccination as recommended by the CDC in the fall of each year.
- Obtain a physical exam from a healthcare provider (form provided with acceptance packet).

Contact information regarding program approval and accreditation:

Texas Board of Nursing, 333 Guadalupe Street #3-460, Austin, TX 78701, (512) 305-7400 <http://www.bon.state.tx.us>

Accreditation Commission for Education in Nursing, 33 Peachtree Road NE, Suite 850, Atlanta, GA 30326, (404) 975-5000 <http://www.acenursing.org>

ADN Degree - TE Option

LVN to RN Transitional Entry Option

Subject	Semester Hours
PREREQUISITES	
BIOL 2401 or 2301 and 2101	4
BIOL 2420 or 2320 and 2120	4
PSYC 2301	3
	11
PREREQUISITES	
BIOL 2402 or 2301 and 2102	4
PSYC 2314	3
ENGL 1301	3
MATH 1314 or 1342	3
	13
Co-Requisites	
Lang/Phil/Culture/Creative Arts Core	3
	3
First Semester	
RNSG 1227	2
RNSG 1413	4
	6
Second Semester	
RNSG 2414	4
RNSG 2462	4
	8
Third Semester	
RNSG 2435	4
RNSG 2463	4
	8

Upon successful completion of the two TE courses, the TE student will receive 11 semester credits for courses equivalent to vocational nursing courses to make a total of 60 hours.

Capstone Requirement: Successful completion of RNSG 2435 and 2463.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. Nursing has specific core requirements (see notations below). The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra*
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods*
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology*
PSYC 2314 Lifespan, Growth & Development
SOC 1301 Introduction to Sociology
SOC 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I*
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

*Courses required for nursing majors.

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

RNSG 1119 - Integrated Nursing Skills (Nursing 1)

Study of the concepts and principles necessary to perform basic nursing skills for care of diverse patients across the life span; demonstrate competence in the performance of nursing procedures. Content includes knowledge, judgment, skills, and professional values within a legal/ethical framework.

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- RNSG 1119 must be taken concurrently with RNSG 1423 and RNSG 1360.
- A grade of "PASS" is required to progress to Nursing 2 courses.

RNSG 1144 - Nursing Skills (Nursing 2)

Study of the concepts and principles necessary to perform intermediate or advanced nursing skills for the adult patient; and demonstrate competence in the performance of nursing procedures. Content includes knowledge, judgment, skills and professional values within a legal/ethical framework.

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 1.0

Lab hours: 3.0

Restrictions:

- This course must be taken concurrently with RNSG 2404 and RNSG 1461.
- A grade of "PASS" is required to progress to Nursing 3 courses.
- Must be taken in sequence as listed in degree plan.

RNSG 1227 - Transition from Vocational to Professional Nursing. LVN to RN Transitional Entry

Content includes health promotion, expanded assessment, analysis of data, critical thinking skills and systematic problem solving process, pharmacology, interdisciplinary teamwork, communication, and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework throughout the life span.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 2.0

Lecture hours: 1.0

Lab hours: 2.0

Restrictions:

- RNSG must be taken concurrently with RNSG 1413.
 - After satisfactory completion of this course and RNSG 1413, the LVN/LPN will enter Nursing 3.
 - A grade of "C" or better is required before credit award is given and the student proceeds on to Nursing 3.
-

RNSG 1360 - Clinical (Nursing 1)

A health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 3.0

Lab hours: 12.0

Restrictions:

- This course must be taken concurrently with RNSG 1119 and RNSG 1423
 - A grade "PASS" is required to progress to Nursing 2 courses.
 - Requires 12 hours of lab work.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 1413 - Foundations for Nursing Practice – LVN to RN Transitional Entry

Introduction to the role of the professional nurse as provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession. Content includes fundamental concepts of nursing practice, history of professional nursing, and a systematic framework for decision-making and critical thinking. Application of concepts related to nursing care of patients across the life span including common childhood/adolescent diseases, uncomplicated perinatal care, mental health concepts, perioperative care, frequently occurring adult health problems and health issues related to aging. Emphasis on knowledge, judgment, skills, and professional values within a legal/ethical framework.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Restrictions:

- RNSG 1413 must be taken concurrently with RNSG 1227.
 - After satisfactory completion of this course and RNSG 1227, the LVN / LPN will enter Nursing 3.
 - A grade of "C" or better is required before credit award is given and student proceeds on to Nursing 3.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 1423 - Introduction to Professional Nursing for Integrated Programs (Nursing 1)

Introduction to the profession of nursing including the roles of the professional nurse as provider of patient-centered care, patient safety advocate, member of health care team, and member of profession with emphasis on health promotion and primary disease prevention across the life span; essential components of the nursing health assessment; identification of deviations from expected health patterns; the application of a systematic, problem-solving process to provide basic nursing care to diverse patients across the life span; and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- RNSG 1423 must be taken concurrently with RNSG 1119 and RNSG 1360.
 - A grade of "C" or better is required to progress to Nursing 2 courses.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 1461 - Clinical (Nursing 2)

A health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 4.0

Lab hours: 12.0

Restrictions:

- This course must be taken concurrently with RNSG 1144 and RNSG 2404.
 - A grade of "PASS" is required to progress to Nursing 3 courses.
 - Requires 12 hours of lab work.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2404 - Integrated Care of the Patient with Common Health Care Needs (Nursing 2)

Application of a systematic problem-solving process, critical thinking skills and concepts to provide nursing care to diverse patients and families across the life span with common health care needs including, but not limited to, common childhood/adolescent diseases, uncomplicated perinatal care, mental health concepts, perioperative care, frequently occurring adult health problems and health issues related to aging. Emphasis on secondary disease prevention and collaboration with members of the interdisciplinary health care team. Content includes roles of the professional nurse and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to an integrated approach.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- RNSG 2404 must be taken concurrently with RNSG 1144 & 1461.
 - A grade of "C" is required to progress to Nursing 3
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2414 - Integrated Care of the Patient with Complex Health Care Needs (Nursing 3)

Application of a systematic problem-solving process, critical thinking skills and concepts to provide comprehensive nursing care to diverse patients and families across the life span with complex health care needs including, but not limited to, complex childhood/adolescent diseases, complicated perinatal care, acute mental illness, complex perioperative care, serious adult health problems and health issues related to aging. Emphasis on tertiary disease prevention, health maintenance/restoration and collaboration with members of the interdisciplinary health care team. Content includes the roles of the professional nurse and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- Must be taken concurrently with RNSG 2462.
 - A grade of "C" or better is required to progress to Nursing 4 courses.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2435 - Integrated Client Care Management (Nursing 4)

Application of a systematic problem-solving process, critical thinking skills and concepts to provide comprehensive nursing care to diverse patients and families across the life span with complex health care needs including, but not limited to, complex childhood/adolescent diseases, complicated perinatal care, acute mental illness, complex perioperative care, serious adult health problems and health issues related to aging. Emphasis on tertiary disease prevention, health maintenance/restoration and collaboration with members of the interdisciplinary health care team. Content includes the roles of the professional nurse and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 4.0

Restrictions:

- Must be taken concurrently with RNSG 2463.
 - A grade of "C" or better is required.
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2462 - Clinical (Nursing 3)

A health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: P

Credit hours: 4.0

Lab hours: 15.0

Restrictions:

- This course must be taken concurrently with RNSG 2414.
 - A grade of "PASS" is required to progress to Nursing 4 courses.
 - RNSG 2462 requires 15 Hours of lab
 - Must be taken in sequence as listed in degree plan.
-

RNSG 2463 - Clinical (Nursing4)

A health related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lab hours: 15.0

Restrictions:

- This course must be taken concurrently with RNSG 2435. A grade of "PASS" is required.
- RNSG 2463 requires 15 Hours of lab
- Must be taken in sequence as listed in degree plan.

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line managers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
First Semester	
CHEF 1205*	3
HAMG 1340	3
HAMG 1221	3
ENGL 1301	3

MATH 1332 or 1314	3
	15
Second Semester	
Social/Behavioral Science Core	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 1213	3
HAMG, PSTR, CHEF or FDST Elective	
	15
Third Semester	
SPCH 1311 or 1321	3
CHEF 2231	3
HAMG 2301	3
HAMG 2307	3
Lang, Phil, Culture/Creative ARTS CORE	3
	15
Fourth Semester	
HAMG 2305	3
HAMG 2332	3
HAMG 2337	3
RSTO 1304	3
HAMG 2167	3
CHEF 1314	
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
First Semester	
CHEF 1205*	2
CHEF 1301	3
HAMG 1221	2
ENGL 1301	3
MATH 1332 or 1314	3
SPCH 1311 or 1321	3
	16
Second Semester	
Lang, Phil, Culture/Creative Arts Core	3
PSTR 1301	3
HAMG 1319	3
CHEF 2231	2
CHEF 1345	3
	14

Third Semester

HAMG 2301	3
HAMG 1340	3
PSTR 2331	3
HAMG 1324	3
CHEF 1310	3
	<hr/>
	15

Fourth Semester

RSTO 1304	3
CHEF 1302	3
CHEF 1314	3
Social/Behavioral Science Core	3
CHEF 1164	1
IFWA 1210	2
	<hr/>
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
First Semester	
HAMG 2301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3
RSTO 1304	3
HAMG 2307	3
	<hr/>
	16
Second Semester	
HAMG 2332	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 2337	3
HAMG 1213	2
	<hr/>
	17
Third Semester	
HAMG 2167	1
HAMG 2305	3
	<hr/>
	4

Culinary Arts Certificate

Subject	Semester Hours
First Semester	
CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3

[PSTR 1301](#) 3

13

Second Semester

[CHEF 1345](#) 3

[CHEF 2231](#) 2

CHEF 1302 3

[HAMG 1319](#) 3

[IFWA 1210](#) or [BIOL 1322](#) 2

13

Third Semester

[CHEF 1314](#) 3

[RSTO 1304](#) 3

[PSTR 2331](#) 3

[CHEF 1310](#) 3

[CHEF 1164](#) 1

13

Basic Culinary Skills Certificate

Subject	Semester Hours
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First Semester

[CHEF 1301](#) 3

[CHEF 1205*](#) 2

[HAMG 1221](#) 2

[PSTR 1301](#) 3

[EDU 1300/PSYC 1300](#) 3

13

Second Semester

[CHEF 1345](#) 3

[CHEF 1310](#) 3

[CHEF 2231](#) 2

[RSTO 1304](#) 3

[POFT 1120](#) 1

12

Catering and Event Planning Certificate

Subject	Semester Hours
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First Semester

TRVM 2333 3

CHEF 1205 2

TRVM 1327 3

CHEF 1301 3

HAMG 1340 3

14

Second Semester

RSTO 2307 3

CHEF 2231 2

CHEF 1310 3

FDST 2433 4

POFT 1120 1

13

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
BIOL 1306/1106 Biology for Science Majors I
BIOL 1307/1107 Biology for Science Majors II
BIOL 1308/1108 Biology for Non-Science Majors I
BIOL 1309/1109 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301/2101 Anatomy & Physiology I
BIOL 2302/2102 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320/2120 Microbiology for Non-Science Majors
BIOL 2321/2121 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311/1111 General Chemistry I
CHEM 1312/1112 General Chemistry II
GEOL 1301/1101 Earth Sciences for Non-Science Majors I
GEOL 1303/1103 Physical Geology
GEOL 1304/1104 Historical Geology
GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Macroeconomics
GEOG 1303 World Regional Geography
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

RSTO 1304 - Dining Room Service

Introduces the principles, concepts, and systems of professional table service. Topics include dining room organization, scheduling, and management of food service personnel.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 1.0

Lab hours: 5.0

Prerequisites:

- [CHEF 1205](#) - Sanitation and Safety
-

RSTO 2307 - Catering

Principles, techniques, and applications for both on-premises, off-premises, and group marketing of catering operations including food preparation, holding, and transporting techniques.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0
Lecture hours: 1.0
Lab hours: 5.0

Chemistry

Overview

For students planning to pursue a Chemistry major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science Degree in General Studies** at Grayson College as part of the **Science and Technology Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AS Degree Requirements

Associate of Science - General Studies

The General Studies AS degree at Grayson College is designed for transfer into STEM, Social or Behavioral Sciences, Humanities, Language or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students desired major. For a STEM major, we recommend taking elective courses in Science or Mathematics.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	14
Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
	15
Fourth Semester	
GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301 Anatomy & Physiology I

BIOL 2302 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320 Microbiology for Non-Science Majors

BIOL 2321 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

SCIT 1305 - Intro to Ag Chemistry

Introduction to chemical components in agricultural applications. Topics include metric system, nomenclature, solutions, and pH in relation to the areas of soils and agricultural applications. Additional topics include chemical composition of grapes and wine, importance of pH in winemaking, titratable acidity, buffer capacity and equilibriums in wine, and fermentation end products.

Upon completion, students will be able to:

- chemical components in agricultural applications.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 2.0

Prerequisites:

- [CHEM 1311](#) - General Chemistry I

Sociology

Overview

For students interested in pursuing an Sociology degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
<hr/>	
16	
Second Semester	
History Core	3

Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	<hr/> 14

Third Semester

GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
	<hr/> 15

Fourth Semester

GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
	<hr/> 15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking
- SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
MATH 1316 Plane Trigonometry
MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I

HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)
SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOC1 1301 Introductory Sociology
SOC1 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

SOCI 1301 - Introduction to Sociology

Introduction to the concepts and principles used in the study of group life, social institutions, and social processes.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SOCI 1306 - Social Problems

Application of sociological principles to the major problems of contemporary society such as inequality, crime and violence, substance abuse, deviance, or family problems.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SOCI 2301 - Marriage & the Family

Sociological examination of marriage and family life. Problems of courtship, mate selection, and marriage adjustment in modern American society.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SOCI 1301](#) - Introduction to Sociology
-

SOCI 2306 - Human Sexuality

Study of the psychological, sociological, and physiological aspects of human sexuality. Cross-listed as PSYC 2306. Only one of the cross-listed courses can be taken for credit.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SOCI 1301](#) - Introduction to Sociology
-

SOCI 2319 - Minority Studies I

Historical, economic, social, and cultural development of minority groups. May include African-American, Mexican American, Asian American, and Native American issues.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SOCI 1301](#) - Introduction to Sociology
-

SOCI 2326 - Social Psychology

Study of individual behavior within the social environment. May include topics such as the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. Cross-listed as PSYC 2319. Only one of the cross-listed courses can be taken for credit.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SOCI 1301](#) - Introduction to Sociology
-

SOCI 2336 - Criminology

Current theories and empirical research pertaining to crime and criminal behavior and its causes, methods of prevention, systems of punishment, and rehabilitation.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SOCI 2389 - Academic Cooperative

An instructional program designed to integrate on-campus study with practical hands-on experience in sociology. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of human social behavior and/or social institutions.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Spanish

Overview

For students interested in pursuing a Spanish degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3

Science Lab	1
Communication Core	3
Component Area Option	1

14

Third Semester

GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3

15

Fourth Semester

GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3

15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

- ENGL 1302 Composition II
- ENGL 2311 Technical & Business Writing
- SPCH 1311 Introduction to Speech Communication
- SPCH 1315 Public Speaking
- SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

- MATH 1314 College Algebra
- MATH 1316 Plane Trigonometry

MATH 1324 Mathematics for Business & Social Sciences
MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
MATH 1342 Elementary Statistical Methods
MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics

PHIL 2321 Philosophy of Religion

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

ARTS 1303 Art History I

ARTS 1304 Art History II

DRAM 1310 Introduction to Theater

ENGL 2307 Creative Writing I

MUSI 1306 Music Appreciation

MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I

HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History

HIST 2327 Mexican-American History I

HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GEOG 1302 Cultural Geography

GEOG 1303 World Regional Geography

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

SPCH 1318 Interpersonal Communication

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness

BIOL 1106 Biology I Lab

BIOL 1107 Biology II Lab

BIOL 1108 Biology for Non-Science Majors I Lab

BIOL 1109 Biology for Non-Science Majors II Lab

BIOL 2101 Anatomy & Physiology Laboratory I

BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I
BIOL 2121 Microbiology for Non-Science Majors Laboratory II
CHEM 1111 General Chemistry I Lab
CHEM 1112 General Chemistry II Lab
COSC 1301 Introduction to Computing
COSC 1336 Programming Fundamentals I
GEOL 1101 Earth Sciences Lab I
GEOL 1103 Physical Geology Lab
GEOL 1104 Historical Geology Lab
GEOL 1105 Environmental Geology Lab
PHYS 1101 College Physics Laboratory I (lab)
PHYS 1102 College Physics Laboratory II (lab)
PHYS 1103 Stars and Galaxies Laboratory (lab)
PHYS 1104 Solar System Laboratory (lab)
PHYS 1115 Physical Science Laboratory I (lab)
PHYS 2125 University Physics Lab I
PHYS 2126 University Physics Lab II
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

SPAN 1300 - Beginning Spanish Conversation I

Basic practice in comprehension and production of the spoken language.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPAN 1411 - Beginning Spanish I

Basic Spanish language skills in listening, speaking, reading and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

SPAN 1412 - Beginning Spanish II

Continued development of basic Spanish language skills in listening, speaking reading, and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 4.0

Lecture hours: 3.0

Lab hours: 2.0

Prerequisites:

- [SPAN 1411](#) - Beginning Spanish I
-

SPAN 2311 - Intermediate Spanish I

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SPAN 1412](#) - Beginning Spanish II
-

SPAN 2312 - Intermediate Spanish II

The consolidation of skills acquired at the Introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Prerequisites:

- [SPAN 2311](#) - Intermediate Spanish I
-

SPAN 2313 - Spanish for native/Heritage Speakers I

Review and application of skills in reading and writing. Emphasizes vocabulary acquisition, reading, composition, and culture. Designed for individuals with oral proficiency in Spanish. This course is considered equivalent to SPAN 2311.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPAN 2315 - Spanish for native/Heritage Speakers II

Review and application of skills in reading and writing. Emphasizes vocabulary acquisition, reading, composition, and culture. Designed for individuals with oral proficiency in Spanish. This course is considered equivalent to SPAN 2312.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

SPAN 2389 - Academic Cooperative

An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of Spanish language and literature.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Prerequisites:

- [SPAN 1412](#) - Beginning Spanish II
-

Speech

Overview

For students interested in pursuing an Speech degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts Degree in General Studies** at Grayson College as part of the **Arts & Humanities Career Pathway**. All students are advised to counsel with the university/college of their choice to determine which courses offered at Grayson College are applicable to that institution's bachelor's degree in their desired major.

AA Degree Requirements

Associate of Arts - General Studies

The General Studies AA degree at Grayson College is designed for transfer into most Social or Behavioral Sciences, Humanities, Language, or Interdisciplinary Studies programs at four-year institutions. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree for the students' desired major. This degree contains 42 hours of core coursework (see pages 53-56), 2 hours of science labs, and 16 hours of electives. Core courses and electives can be selected that are most likely to fill Bachelor's degree requirements if students know which transfer institution they will attend.

Subject	Semester Hours
First Semester	
ENGL 1301	3
Mathematics Core	3
HIST 1301 or 1302	3
Life & Physical Science Core	3
Science Lab	1
EDUC/PSYC 1300 or Component Area Option	3
	16
Second Semester	
History Core	3
Academic Elective	3
Life & Physical Sciences Core	3
Science Lab	1
Communication Core	3
Component Area Option	1
	14

Third Semester	
GOVT 2305 or 2306	3
Social & Behavioral Science Core	3
Language, Philosophy & Culture Core	3
Academic Elective	3
Academic Elective	3
	15

Fourth Semester	
GOVT 2305 or 2306	3
Creative Arts Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
	15

Please note: This is a sample degree plan only. All coursework will be customized to meet the needs of the desired major.

To receive a General Studies Associate of Arts Degree, students must choose six hours from the following as their academic electives (courses cannot be repeated for credit): HIST 2321/2322, PHIL 1304, ENGL (2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351), GEOG 1303, SPAN 2311/2312.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area.

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6
040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I and one of the following:

ENGL 1302 Composition II
 ENGL 2311 Technical & Business Writing
 SPCH 1311 Introduction to Speech Communication
 SPCH 1315 Public Speaking
 SPCH 1321 Business & Professional Communication

Mathematics (3 hours)

MATH 1314 College Algebra
 MATH 1316 Plane Trigonometry
 MATH 1324 Mathematics for Business & Social Sciences
 MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)
 MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math
MATH 2413 Calculus I

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 1414 Introduction to Biotechnology I
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)
BIOL 2320 Microbiology for Non-Science Majors
BIOL 2321 Microbiology for Science Majors
CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
GEOL 1301 Earth Sciences for Non-Science Majors I
GEOL 1303 Physical Geology
GEOL 1304 Historical Geology
GEOL 1305 Environmental Science
PHYS 1301 College Physics I
PHYS 1302 College Physics II
PHYS 1303 Stars and Galaxies
PHYS 1304 Solar System
PHYS 1315 Physical Science I
PHYS 2325 University Physics I
PHYS 2326 University Physics II

Note: All science courses at Grayson College must be taken with their corresponding labs. The labs can be used in the CAO2.

Language, Philosophy, and Culture (3 hours)

ENGL 2322 British Literature I
ENGL 2323 British Literature II
ENGL 2327 American Literature I
ENGL 2328 American Literature II
ENGL 2332 World Literature I
ENGL 2333 World Literature II
ENGL 2341 Forms of Literature
ENGL 2351 Mexican-American Literature
HIST 2321 World Civilizations I
HIST 2322 World Civilizations II
HUMA 1301 Introduction to Humanities I
HUMA1302 Introduction to Humanities II
PHIL 1301 Introduction to Philosophy
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics
PHIL 2321 Philosophy of Religion
SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation
ARTS 1303 Art History I
ARTS 1304 Art History II
DRAM 1310 Introduction to Theater
ENGL 2307 Creative Writing I
MUSI 1306 Music Appreciation
MUSI 1307 Music Literature

American History (6 hours)

One or both of the following two:

HIST 1301 United States History I
HIST 1302 United States History II

One of the following can substitute for 3 hours of the above U.S. History courses:

HIST 2301 Texas History
HIST 2327 Mexican-American History I
HIST 2328 Mexican-American History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government
GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

CRIJ 1307 Crime in America
ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GEOG 1302 Cultural Geography
GEOG 1303 World Regional Geography
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOVI 1301 Introductory Sociology
SOVI 1306 Social Problems
SPCH 1318 Interpersonal Communication
TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

EDUC1300/PSYC 1300 Learning Frameworks*

Three hours from any course listed in the core or from the following list:

PHED 1164 Introduction to Physical Fitness and Wellness
BIOL 1106 Biology I Lab
BIOL 1107 Biology II Lab
BIOL 1108 Biology for Non-Science Majors I Lab
BIOL 1109 Biology for Non-Science Majors II Lab
BIOL 2101 Anatomy & Physiology Laboratory I
BIOL 2102 Anatomy & Physiology Laboratory II
BIOL 2120 Microbiology for Non-Science Majors Laboratory I

BIOL 2121 Microbiology for Non-Science Majors Laboratory II

CHEM 1111 General Chemistry I Lab

CHEM 1112 General Chemistry II Lab

COSC 1301 Introduction to Computing

COSC 1336 Programming Fundamentals I

GEOL 1101 Earth Sciences Lab I

GEOL 1103 Physical Geology Lab

GEOL 1104 Historical Geology Lab

GEOL 1105 Environmental Geology Lab

PHYS 1101 College Physics Laboratory I (lab)

PHYS 1102 College Physics Laboratory II (lab)

PHYS 1103 Stars and Galaxies Laboratory (lab)

PHYS 1104 Solar System Laboratory (lab)

PHYS 1115 Physical Science Laboratory I (lab)

PHYS 2125 University Physics Lab I

PHYS 2126 University Physics Lab II

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

* All students seeking the Associate of Arts, the Associate of Science, or the Associate of Arts in Teaching coming to Grayson College with fewer than 15 hours must take EDUC1300/PSYC 1300 and three more credits from the courses listed in the Component Area Option and not used in another component area.

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

SPCH 1311 - Introduction to Speech Communication

Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking. (R W)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPCH 1315 - Public Speaking

Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations. (R W)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

SPCH 1318 - Interpersonal Communication

Application of communication theory to interpersonal relationship development, maintenance, and termination in relationship contexts including friendships, romantic partners, families, and relationships with co-workers and supervisors.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

SPCH 1321 - Business & Professional Communication

Study and application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams and technologically mediated formats. (R W)

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

SPCH 2333 - Discussion & Small Group Communication

Discussion and small group theories and techniques as they relate to group process and interaction.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Prerequisites:

- [SPCH 1311](#) - Introduction to Speech Communication
 - [SPCH 1315](#) - Public Speaking
 - [SPCH 1318](#) - Interpersonal Communication
 - [SPCH 1321](#) - Business & Professional Communication
-

SPCH 2341 - Oral Interpretation

Theories and techniques in analyzing and interpreting literature. Preparation and presentation of various literary forms.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

Prerequisites:

- [SPCH 1311](#) - Introduction to Speech Communication
 - [SPCH 1315](#) - Public Speaking
 - [SPCH 1318](#) - Interpersonal Communication
 - [SPCH 1321](#) - Business & Professional Communication
-

Education

Overview

For students interested in pursuing an education degree, Grayson College offers three options as part of the **Public Services Pathway**. Specific options include:

- Associate of Arts in Teaching in Grades 8-12 and other Early Childhood-Grade 12
- Associate of Arts in Teaching in Grades 4-8 and Early Childhood-Grade 12 Special Education

- Associate of Arts in Teaching Early Childhood-Grade 6 Generalists

Courses within the program align with State Board for Educator Certification Pedagogy and Professional Responsibilities Standards. The degree plan satisfies the core requirements for baccalaureate programs at four-year institutions that lead to initial Texas teacher certification.

All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree.

AAT 8-12 Degree Requirements

Associate of Arts in Teaching (AAT) Education Grades 8-12 and Early Childhood-Grade 12

The AAT in Grades 8-12 and other Early Childhood-Grade 12 licensure satisfies the lower-division requirements for bachelor's degree leading to initial Texas teacher certification in all 8-12 and specialized in EC-12 certification areas.

The Grades 8-12 Certification areas are: 8-12 History, 8-12 Social Studies, 8-12 Mathematics, 8-12 Life Sciences, 8-12 Physical Sciences, 8-12 Science, 8-12 English Language Arts & Reading, 8-12 Computer Science, 8-12 Technology Applications, 8-12 Health Science Technology Education, 8-12 Speech, 8-12 Journalism, 6-12 Business Education, 8-12 Marketing Education, 8-12 Mathematics & Physics, 8-12 Agricultural Sciences and Technology, 6-12 Technology Education, 6-12 Languages other than English, 6-12 Family and Consumer Sciences, 8-12 Dance, 8-12 Mathematics & Physical Science & Engineering, 8-12 Human Development and Family Studies, 8-12 Hospitality, Nutrition and Food Sciences, and 8-12 other content area teaching fields/academic disciplines TBA (Chemistry). The EC-Grade 12 Certification other than Special Education Certificate areas are: EC-12 Music, EC-12 Physical Education, EC-12 Art, EC-12 Health, EC-12 Theatre Arts, EC-12 Technology Applications, EC-12 Languages other than English, and EC-12 other non-special education fields.

Subject	Semester Hours
First Semester	
EDUC 1301	3
ENGL 1301	3
Approved Math Core*	3
HIST 1301	3
EDUC/PSYC 1300 or Component Area Option 1	3
	15
Second Semester	
EDUC 2301	3
ENGL 1302	3
Elective in Discipline**	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab	1
HIST 1302	3
	16
Third Semester	
GOVT 2305	3
Elective in Discipline**	3
Elective in Discipline	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab*	1
TECA 1354	3
	16
Fourth Semester	
GOVT 2306	3
Language, Philosophy & Culture Core*	3
Elective in Discipline*	3
Approved Component Option Option 2*	1
Approved Creative Arts Core*	3
	13

Check with a GC academic advisor and the receiving university/college for recommended courses.

AAT 4-8 Degree Requirements

Associate of Arts in Teaching (AAT) Education 4-8 Certification and Early Childhood-Grade 12

The Grade 4-8 and Early Childhood-Grade 12 Special Education degree satisfies the lower division requirements for a bachelor's leading to initial Texas teacher certification in all grades 4-8 certification areas and early childhood-12 special education. The Grade 4-8 Certification areas include: Generalist; ESL Generalist; English Language Arts and Reading; English Language Arts, Reading and Social Studies; Mathematics; Science; Mathematics and Science; Social Studies; other content area teaching fields/academic disciplines/interdisciplinary TBA. This degree is for students who want to teach grades EC-Grade 4 and higher. All students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degree.

Subject	Semester Hours
First Semester	
EDUC 1301	3
ENGL 1301	3
Approved Math Core*	3
HIST 1301	3
EDUC/PSYC 1300 or Component Area Option 1	3
	15
Second Semester	
EDUC 2301	3
ENGL 1302	3
MATH 1350 **	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab	1
HIST 1302	3
	16
Third Semester	
GOVT 2305	3
MATH 1351 **	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab*	1
TECA 1354	3
	13
Fourth Semester	
GOVT 2306	3
Language, Philosophy & Culture Core*	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab*	1
Approved Component Option Area*	3
Approved Creative Arts Core*	3
	16

Check with a GC academic advisor and the receiving university/college for recommended courses.

AAT EC-6 Degree Requirements

Associate of Arts in Teaching (AAT) Education Early Childhood-Grade 6 Generalists

The Early Childhood-Grade 6 degree satisfies the lower-division requirements for bachelor's degrees leading to initial Texas teacher certification. EC-6 Certification areas include: Generalist; Bilingual Generalist; ESL Generalist; other content area teaching field/academic disciplines/interdisciplinary TBA. However, all students are advised to counsel with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's bachelor's degrees.

Subject	Semester Hours
First Semester	
EDUC 1301	3
ENGL 1301	3
Approved Math Core*	3
HIST 1301	3
EDUC/PSYC 1300 or Component Area Option 1	3
	15
Second Semester	
EDUC 2301	3
ENGL 1302	3
MATH 1350 **	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab	1
HIST 1302	3
	16
Third Semester	
GOVT 2305	3
MATH 1351 **	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab*	1
TECA 1354	3
	13
Fourth Semester	
GOVT 2306	3
Language, Philosophy & Culture Core*	3
Approved Life & Physical Sciences Core*	3
Approved Life & Physical Sciences Lab*	1
Approved Component Option Area*	3
Approved Creative Arts Core*	3
	16

Check with a GC academic advisor and the receiving university/college for recommended courses.

Core

Students earning an Associate of Arts, Associate of Science, or Associate of Arts in Teaching Degree at Grayson College must complete 42 hours of a state mandated Core Curriculum in addition to major courses and electives in their particular area of interest. Following are the Core Curriculum Component Areas and allowable courses within each component area. **Approved core selections for AAT are listed below.**

Component Areas	Required Hours
010 Communication	6
020 Mathematics	3
030 Life and Physical Sciences	6

040 Language, Philosophy, and Culture	3
050 Creative Arts	3
060 American History	6
070 Government/Political Science	6
080 Social and Behavioral Sciences	3
090 Component Area Option	6
Total	42

Communication (6 hours)

ENGL 1301 Composition I

ENGL 1302 Composition II

Mathematics (3 hours)

MATH 1314 College Algebra

MATH 1332 Contemporary Mathematics I (Math for Liberal Arts Majors I)

MATH 1342 Elementary Statistical Methods

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 2301 Anatomy & Physiology I

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

GEOL 1301 Earth Sciences for Non-Science Majors I

GEOL 1303 Physical Geology

GEOL 1304 Historical Geology

PHYS 1301 College Physics I

PHYS 1302 College Physics II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1315 Physical Science I

Language, Philosophy, and Culture (3 hours)

ENGL 2351 Mexican-American Literature

HUMA 1301 Introduction to Humanities I

PHIL 1301 Introduction to Philosophy

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

SPAN 2311 Intermediate Spanish I (3rd semester Spanish)

SPAN 2312 Intermediate Spanish II (4th semester Spanish)

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Introduction to Theater

MUSI 1306 Music Appreciation

American History (6 hours)

HIST 1301 United States History I

HIST 1302 United States History II

Government /Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social and Behavioral Sciences (3 hours)

TECA 1354 Child Growth and Development

Component Area Option (CAO 1 and CAO 2) (6 hours)

COSC 1301 Introduction to Computing

PHED 1164 Introduction to Physical Fitness and Wellness

COSC 1336 Programming Fundamentals I

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business and Professional Communication

Note: Many four-year colleges and universities require a foreign language as part of their degree plan. SPAN 1411, 1412, 2311, 2312, 2321, and 2322 meet transfer requirements for foreign language.

TECA 1303 - Families, Schools and Community

A study of the child, family, community and school, including parent education and involvement, family and community lifestyles, child abuse, and current family life issues. Course content must be aligned with as applicable with State Board of Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate practices for children from birth through age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. The course includes a minimum of 16 hours of field experience.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

TECA 1311 - Educating Young Children

An introduction to the education of the young child, including developmentally appropriate practices and programs, theoretical and historical perspectives, ethical and professional responsibilities, and current issues. Course content must be aligned as applicable with State Board of Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate practices for children from birth through age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations; and the course includes a minimum of 16 hours of field experiences.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

TECA 1318 - Wellness of the Young Child

A study of the factors that impact the well-being of the young child including healthy behavior, food, nutrition, fitness, and safety practices. Focuses on local and national standards and legal implications of relevant policies and regulations. Course content must be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate practices for children from birth to age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. Course includes a minimum of 16 hours of field experiences.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

TECA 1354 - Child Growth & Development

A study of the physical, emotional, social, language, and cognitive factors impacting growth and development of children through adolescence.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Advanced Manufacturing

Overview

AAS Degree Requirements

Associate of Science -

Subject	Semester Hours
First Semester	
TECM 1303	3
EDUC 1300	3
Social Behavioral Sciences Core	3
MATH 1332	3
	12
Second Semester	
MCHN 1320	3
ELPT 1311	3
MCHN 1302	3
ENGL 2311	3
Lang, Phil, Culture/Arts Core	3
	15
Third Semester	
MCHN 1371	3
QCTC 1343	3

AS Life & Phys Science Core	3
AS Life & Phys Science Core Lab	1
MCHN 1438	4
<hr/>	
	14

Fourth Semester

ELPT 2319	3
MCHN 1326	3
INMT 1391	3
<hr/>	
	9

Fifth Semester (May Mini & Summer)

ELPT 1441	4
INMT 2688	6
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	10

Notes and Content

Notes and Content

Certificate Degree Requirements

Advanced Manufacturing Technician Certificate

Subject	Semester Hours
First Semester	
TECH 1303 Technical Calculations	3
<hr/>	
	3
Second Semester	
MCHN 1320 Prec Tools & Measure	3
<hr/>	
	3
Third Semester	
ELPT 1311 Basic Electrical Theory	3
MCHN 1302 Print Rdng for Mchn	3
<hr/>	
	6
Fourth Semester	
MCHN 1371 MSSC Local Needs	3
QCTC 1343 Quality Assurance	3
<hr/>	
	6
Fifth Semester	
MCHN 1438 Basic Mch Shop I	4
<hr/>	
	4
Sixth Semester	
ELPT 2319 PLC'S I	3
MCHN 1326 CAM	3
<hr/>	
	6
Seventh Semester (May Mini & Summer)	
INMT 1391 Spec Top in Mfg Technology	3
ELPT 1441 Motor Controls	4
INMT 2688 Internship Mfg Tech	6
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	13

Notes and Content

Notes and Content

TECM 1303 - Technical Calculations

Specific mathematical calculations required by business, industry, and health occupations. Solve technical math problems using addition, subtraction, multiplication, and division; convert between whole numbers, fractions, mixed numbers, and decimals; perform calculations involving percent, ratios, and proportions; and convert numbers to different units of measurement (standard and/or metric).

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Hospitality/Culinary Arts

Overview

The **Hospitality Management** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of entry positions and careers in the vast hospitality industry. These careers can vary into several fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisors, line mangers, managers, sales personnel, human resources, and other related positions.

The **Culinary Arts** curriculum at Grayson College is designed to give graduates the skills and knowledge needed for a variety of positions and careers in commercial kitchens. These careers can vary into several different fields such as hotels, restaurants, resorts, cruise ships, nursing homes, and assisted living complexes; and positions can range from a knowledgeable and skilled line cook to a kitchen manager.

In addition to Associate of Arts Degrees, the college offers the following certificates:

- Culinary Arts
- Basic Culinary Skills Certificate
- Hospitality Management
- Restaurant Management

Graduates will develop several skills, both technical and higher thinking, that will help in their supervisory and business management of the selected field that will increase their value to an organization. The major skill sets learned will be in food preparation, nutritional value of foods, meal and portion control for profit, food and beverage purchasing and sales, legal knowledge in operations and human resources, computer skills, team player and brigade concepts, and excellent communication.

Many of these full-length courses may be taken for non-credit through the GC Continuing Education division. A number of fun, short courses (including some classes for youth) are also offered through Continuing Education.

Course Requirements

Grayson College requires that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have met TSI requirements.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a comprehensive practical and written exit exam prior to graduation. Graduation with a Hospitality Certificate or Associates of Applied Science Degree also requires successful completion of HAMG 2167.

Local Employers

Choctaw Casino, Winstar Casino, Delaware North, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree - Hospitality

Associate of Applied Science Degree - Hospitality Management

Subject	Semester Hours
First Semester	
CHEF 1205*	3
HAMG 1340	3
HAMG 1221	3
ENGL 1301	3
MATH 1332 or 1314	3
	15
Second Semester	
Social/Behavioral Science Core	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 1213	3
HAMG, PSTR, CHEF or FDST Elective	
	15
Third Semester	
SPCH 1311 or 1321	3
CHEF 2231	3
HAMG 2301	3
HAMG 2307	3
Lang, Phil, Culture/Creative ARTS CORE	3
	15
Fourth Semester	
HAMG 2305	3
HAMG 2332	3
HAMG 2337	3
RSTO 1304	3
HAMG 2167	3
CHEF 1314	
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, 2331, 1314 and RSTO 1304.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

AAS Degree - Culinary

Associate of Applied Science Degree - Culinary Arts

Subject	Semester Hours
First Semester	
CHEF 1205*	2
CHEF 1301	3
HAMG 1221	2
ENGL 1301	3
MATH 1332 or 1314	3
SPCH 1311 or 1321	3
	16
Second Semester	

Lang, Phil, Culture/Creative Arts Core	3
PSTR 1301	3
HAMG 1319	3
CHEF 2231	2
CHEF 1345	3
	14

Third Semester

HAMG 2301	3
HAMG 1340	3
PSTR 2331	3
HAMG 1324	3
CHEF 1310	3
	15

Fourth Semester

RSTO 1304	3
CHEF 1302	3
CHEF 1314	3
Social/Behavioral Science Core	3
CHEF 1164	1
IFWA 1210	2
	15

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe Certification is a prerequisite for all other CHEF, PSTR & RSTO courses.

Capstone Requirement: All students must pass the required Departmental comprehensive written and practical exam with a grade of "C" or better, prior to graduation, in order to satisfy the capstone experience.

Certificate Degree Requirements

Hospitality Management Certificate

Subject	Semester Hours
First Semester	
HAMG 2301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3
RSTO 1304	3
HAMG 2307	3
	16
Second Semester	
HAMG 2332	3
CHEF 1301	3
HAMG 1319	3
HAMG 1324	3
HAMG 2337	3
HAMG 1213	2
	17
Third Semester	
HAMG 2167	1
HAMG 2305	3
	4

Culinary Arts Certificate

Subject	Semester Hours
First Semester	
CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
HAMG 1340	3
PSTR 1301	3
<hr/>	
	13

Second Semester	
CHEF 1345	3
CHEF 2231	2
CHEF 1302	3
HAMG 1319	3
IFWA 1210 or BIOL 1322	2
<hr/>	
	13

Third Semester	
CHEF 1314	3
RSTO 1304	3
PSTR 2331	3
CHEF 1310	3
CHEF 1164	1
<hr/>	
	13

Basic Culinary Skills Certificate

Subject	Semester Hours
First Semester	
CHEF 1301	3
CHEF 1205*	2
HAMG 1221	2
PSTR 1301	3
EDU 1300/PSYC 1300	3
<hr/>	
	13

Second Semester	
CHEF 1345	3
CHEF 1310	3
CHEF 2231	2
RSTO 1304	3
POFT 1120	1
<hr/>	
	12

Catering and Event Planning Certificate

Subject	Semester Hours
First Semester	
TRVM 2333	3
CHEF 1205	2
TRVM 1327	3
CHEF 1301	3
HAMG 1340	3
<hr/>	
	14

Second Semester	
RSTO 2307	3
CHEF 2231	2

CHEF 1310	3
FDST 2433	4
POFT 1120	1
<hr/>	
	13

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301.

Capstone Requirement: All students must pass the required departmental comprehensive written and practical exam with a grade of "C" or better prior to graduation in order to satisfy the capstone experience.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

MATH 2312 Pre-Calculus Math

BIOL 1306/1106 Biology for Science Majors I

BIOL 1307/1107 Biology for Science Majors II

BIOL 1308/1108 Biology for Non-Science Majors I

BIOL 1309/1109 Biology for Non-Science Majors II

BIOL 1414 Introduction to Biotechnology I

BIOL 2301/2101 Anatomy & Physiology I

BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan, Growth & Development
SOCL 1301 Introduction to Sociology
SOCL 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation
DRAM 1310 Stagecraft I
HUMA 1301 Introduction to the Humanities
HUMA 1302 Introduction to the Humanities II
MUSI 1306 Music Appreciation
PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks
SPCH 1311 Introduction to Speech Communication
SPCH 1315 Public Speaking
SPCH 1321 Business & Professional Communication
ENGL 1301 Composition I
ENGL 1302 Composition II
ENGL 2311 Technical and Business Writing
SPAN 1411 Beginning Spanish I
SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

TRVM 1327 - Special Events Design

The development of a special event from the conceptual stage through completion. Emphasis on industry terminology, factors to consider when planning a special event, and contingency plans.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

TRVM 2333 - Applied Convention/Meetings Management

Practical application of meetings and exposition skills through a case study or participation in a conference/meeting. Includes integration of meeting planning tools that compare and discriminate between key areas of program development and convention objectives.

Upon completion, students will be able to:

- See Course Description

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Vocational Nursing

Overview

The Grayson College Vocational Nursing program requires 46 credit hours and can be completed in 12 months. The Vocational Nursing Program meets five days a week and is considered a full time program. Classes begin in August and students complete three (3) semesters and one (1) minimester with scheduled breaks, completing the program the next July. Clinical course rotations may vary to include day or evening shifts. Upon successful completion of the program, graduates are awarded a certificate in vocational nursing. Graduates must subsequently apply to take the NCLEX-PN exam. If successfully completed, the graduate will be issued a license to practice nursing as a licensed vocational nurse (LVN) by the Texas Board of Nursing.

Detailed information about the program is provided in an information packet, available by sending an email request to lvn@grayson.edu. The applicant should request the Vocational Nursing Information Packet. The packet will be sent to the applicant via email. Completion of this information packet is required for all applicants to the program.

The following general information about the vocational nursing program is current at the time of printing, but all information is subject to change without notice or obligation.

Information for Prospective Students

Detailed information about the program is provided in the VN Information Packet. This packet is available by sending an email request to LVN@grayson.edu. Completion of this information packet is required by June 10th of every year for all applicants to the program.

Graduation Rates:

- Class of 2013 - 77%
- Class of 2014 - 88%
- Class of 2015 - 77%

Graduates' Success on the NCLEX-PN Licensure exam:

- Class of 2013 - 93.55%
- Class of 2014 - 88.24%
- Class of 2015 - 98.08%

Job Placement Rates of Graduates:

- Class of 2013 - 92%
- Class of 2014 - 93%
- Class of 2015 - 91%

Accreditation Status

**Approved by: Texas Board of Nursing, 333 Guadalupe, Suite 3-460, Austin, TX 78701 Phone: 512.305.7400
www.bon.state.tx.us**

Core Performance Standards/Physical & Mental Capabilities

In order to accomplish the objectives of the program, students must be able to meet certain core performance standards. These standards are listed in the VN Information Packet.

Admission Information

Admission to the nursing program is selective, with registration in nursing courses by permission only. Admission to the college does not guarantee admission to the Vocational Nursing Program. To be considered for acceptance into the program, applicants must submit all required application information by the deadlines posted in the VN Information Packet.

Minimum Admission Requirements:

1. Admission to Grayson College
2. Application to the Vocational Nursing Program. The application closing date is found in the Vocational Nursing Information Packet obtained by emailing drydene@grayson.edu.
3. Submission of copy of High School transcript or GED to VN Program
4. Completion of the TSI (Texas Success Initiative Assessment), if not taken previously. Information may be found at <http://www.grayson.edu>.
5. Submission of copies of college transcripts from colleges or universities previously attended to VN Program
6. Completion of HESI Admission Exam with score of 75 or higher on cumulative total of required sections. (HESI Admission exam may be taken two (2) times in a 12 month period).
7. Documentation of current enrollment or successful completion of BIOL 2404 (Survey of Anatomy and Physiology) -or- Human Anatomy and Physiology I and II with labs with a grade of "C" or better.
8. Documentation of ability to complete all required immunizations prior to the start of classes in August. This includes Hepatitis B series, MMR, tetanus and varicella. These immunizations are taken in series and can take up to six (6) months to complete.

All documentation related to these admission requirements should be submitted to the VN Program Assistant by the posted deadline. Applications will not be considered for acceptance until the applicant has taken and passed the HESI Admission Exam. Details about the exam are provided in the VN Information Packet.

Selection and Acceptance Procedure

1. Applicants are reviewed for required documentation (after submission deadlines) by the VN Admissions Committee.
2. Only those with complete files will be considered for admission.
3. Applicants with complete files will be evaluated for selection based on HESI Admission Exam scores. Applicants must have a minimum cumulative score of 75 or higher on required sections.
4. Applicants will be assessed on point system:
 - Completion of prerequisite course (BIOL 2404) with grade "C" or better must be obtained in the course.
 - Completion of concurrent courses (PSYC 2314 and HPRS 2300) with grade "C" or better in each course.
 - HESI scores.
5. Applicants will be notified in writing regarding acceptance, standby, alternate or denied status, within 2 weeks of the final deadline date. Applicants will be asked to return a form documenting acceptance of their status. Failure to do so by the specified date will result in acceptance being forfeited.
6. Final acceptance is contingent upon completion of final acceptance requirements, listed below:

Final Acceptance Requirements (Following notification of admission)

1. Application to Texas Board of Nursing (BON) to complete mandatory DPS/FBI background check and fingerprint scan. Instructions on completing the application to the BON are contained in the notification of admission letter received by the applicant. This must be completed within the time frame specified in the acceptance letter.
2. Obtain CPR certification. American Heart Association Healthcare Provider level with a face-to-face demonstration check off.
3. Completed Medical Exam Form (provided at orientation by GC)
4. Submit proof of a negative TB (tuberculosis) test or negative chest X-ray
5. Complete mandatory orientation requirements. Failure to attend will result in acceptance being forfeited.
6. Pass a urine drug screen and an additional criminal background check, as specified by the Vocational Nursing Program.

Transfer of College Coursework

Students who desire admission to GC must adhere to the GC course transfer policies outlined in the GC Student Handbook. This includes submitting official copies of transcripts from each college or university previously attended to the Office of Admissions and Records and a copy of the transcripts to the VN Program. The Office of Admissions and Records will not send a copy to the VN office. Nursing courses are accepted for transfer only with prior approval of the VN Program Director.

Contact information regarding program approval:

Texas Board of Nursing
 333 Guadalupe St #3-460
 Austin, TX 78701
 512-305-7400
<http://www.bon.state.tx.us/>

Certificate Degree Requirements

Vocational Nursing Certificate

Subject	Semester Hours
First Semester (Fall)	
BIOL 2404	4
VNSG 1304	3
VNSG 1502	5
VNSG 1226	2
VNSG 1133 or PSYC 2314	1
VNSG 1360	3
	18
Second Semester (Spring)	
VNSG 1331 or HPRS 2300	3
VNSG 1509	5
VNSG 1230	2
VNSG 1334	3
VNSG 1361	3
	16
Third Semester (Spring MiniMester)	
VNSG 1219	2
VNSG 1162	1
	3
Fourth Semester (Summer)	
VNSG 2510	5
VNSG 1262	2
VNSG 1238	2
	9

The Semester Credit Hours are based on a 16-week semester. The Grayson College vocational Nursing Program adapts the hours to accommodate three (3) 14-week semesters and one (1) three-week minimester.

Capstone Requirement: An external exit exam requirement is included in VNSG 2510.

VNSG 1133 - Growth & Development

Study of the basic aspects of growth and development throughout the life span. Focus on growth and development of the individual's body, mind, and personality as influenced by the environment.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L

Credit hours: 1.0

Lecture hours: 1.0

VNSG 1162 - Clinical-LVN Training II

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: P

Credit hours: 1.0
Lecture hours: 1.0
Lab hours: 18.0

VNSG 1219 - Leadership and Professional Development

Study of the importance of professional growth. Topics include the role of the Licensed Vocational Nurse in the multi-disciplinary health care team, professional organizations, and continuing education.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0

VNSG 1226 - Gerontology.

Overview of the normal physical, psychosocial, and cultural aspects of the aging process. Addresses common disease processes of aging. Exploration of attitudes toward care of the older adult.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0

VNSG 1230 - Maternal-Neonatal Nursing

A study of the biological, psychological, and sociological concepts applicable to basic needs of the family including childbearing and neonatal care. Utilization of the nursing process in the assessment and management of the childbearing family. Topics include physiological changes related to pregnancy, fetal development, and nursing care of the family during labor and delivery and the puerperium.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0

VNSG 1238 - Mental Illness

Study of human behavior with emphasis on emotional and mental abnormalities and modes of treatment incorporating the nursing process.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 2.0
Lecture hours: 2.0

VNSG 1262 - Clinical-LVN Training III

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: P
Credit hours: 2.0
Lecture hours: 2.0
Lab hours: 18.0

VNSG 1304 - Foundations of Nursing

Introduction to the nursing profession including history, standards of practice, legal and ethical issues, and role of the vocational nurse. Topics include mental health, therapeutic communication, cultural and spiritual diversity, nursing process, and holistic awareness.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

VNSG 1331 - Pharmacology

Fundamentals of medications and their diagnostic, therapeutic, and curative effects. Includes nursing interventions utilizing the nursing process.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

VNSG 1334 - Pediatrics

Study of the care of the pediatric patient and family during health and disease. Emphasis on growth and development needs utilizing the nursing process.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

VNSG 1360 - Clinical-LVN Training I

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: P
Credit hours: 3.0
Lab hours: 14.0

VNSG 1361 - Clinical II

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: P
Credit hours: 3.0
Lecture hours: 3.0
Lab hours: 18.0

VNSG 1502 - Applied Nursing Skills I

Introduction to and application of primary nursing skills. Emphasis on utilization of the nursing process and related scientific principles.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 5.0
Lecture hours: 4.0
Lab hours: 4.0

VNSG 1509 - Nursing in Health & Illness II

Introduction to common health problems requiring medical and surgical intervention.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 5.0
Lecture hours: 5.0

VNSG 2510 - Nursing in Health & Illness III

Continuation of Nursing in Health and Illness II. Further study of common medical-surgical health problems of the client including concepts of mental illness. Incorporates knowledge necessary to make the transition from student to graduate vocational nurse.

Upon completion, students will be able to:

- See Course Syllabus

Grade Basis: L
Credit hours: 5.0
Lecture hours: 5.0

Welding

Overview

The Welding Program will prepare you for most of the basic welding processes to join such metals as carbon, aluminum, and stainless steel, which will provide you with the information and training to step directly into employment. The program will also prepare you for many types of employment related to welding, such as engineering, quality control, manufacturing technician, etc.

Grayson College offers an Associate of Applied Science degree and two certificate of completions that train students in **Combination Welding** and **Structural Welding**.

Many of the Welding courses may be taken for non-credit through the College's Continuing Education division. Classes are available on the Main Campus and the South Campus.

Course Requirements

The Associate Degree, the Structural Welder Certificate and the Combination Welder Certificate require that you have a High School Diploma or equivalent. The Associate of Applied Science Degree requires that you have completed the TSI requirements.

Capstone Experience

Graduation with the Associate of Applied Science Degree in Welding or the completion of the Combination or Structural Welding Certificate requires successful completion of a Comprehensive Exit Exam.

Local Employers

ACS, B-Line, Caterpillar, Champion Coole,r Custom Bodies, Dutec Magna-Fab, Meuller Construction, Progress Rail, Plyler Construction, Weld-Co

AAS Degree Requirements

Associate of Applied Science Degree

Subject	Semester Hours
First Semester	
WLDG 1421	4
WLDG 1428	4
DFTG 1309	3
MATH 1332	3
	14
Second Semester	
WLDG 1457	4
WLDG 1430	4
Life, Phil, Culture/Creative Arts Core	3
BUSI 2309	3
	14
Third Semester	
WLDG 1434	4
DFTG 1325	3
WLDG 2447	4
ENGL 1301	3
Social & Behavioral Science	3
	18
Fourth Semester	
WLDG 2451	4
WLDG 2406	4
SPCH 1321	3
Elective	3
	14

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Certificate Degree Requirements

Welding—Combination Welder Certificate

Subject	Semester Hours
First Semester	
WLDG 1421	4
WLDG 1428	4
	8
Second Semester	

WLDG 1457	4
WLDG 1430	4
<hr/>	
	8
<hr/>	
Third Semester	
WLDG 1434	4
WLDG 2406	4
DFTG 1325	3
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	11
<hr/>	
Fourth Semester	
WLDG 2451	4
WLDG 2447	4
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	8

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Welding—Structural Certificate

Subject	Semester Hours
<hr/>	
First Semester	
WLDG 1421	3
WLDG 1428	3
<hr/>	
	15
<hr/>	
Second Semester	
WLDG 1430	3
WLDG 1457	3
<hr/>	
	15

Capstone Experience: All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation.

Core

Students earning an Associate of Applied Science Degree at Grayson College must complete fifteen semester hours of a general education core. The core courses are distributed as follows:

Mathematics/Life and Physical Sciences (3 hours)

- MATH 1314 College Algebra
- MATH 1324 Mathematics for Business & Social Sciences
- MATH 1332 Contemporary Mathematics I
- MATH 1342 Elementary Statistical Methods
- MATH 2312 Pre-Calculus Math
- BIOL 1306/1106 Biology for Science Majors I
- BIOL 1307/1107 Biology for Science Majors II
- BIOL 1308/1108 Biology for Non-Science Majors I
- BIOL 1309/1109 Biology for Non-Science Majors II
- BIOL 1414 Introduction to Biotechnology I
- BIOL 2301/2101 Anatomy & Physiology I
- BIOL 2302/2102 Anatomy & Physiology II

BIOL 2404 Anatomy & Physiology (specialized, single-semester course, lecture + lab)

BIOL 2320/2120 Microbiology for Non-Science Majors

BIOL 2321/2121 Microbiology for Science Majors

CHEM 1406 Introductory Chemistry I (lecture + lab, allied health emphasis)

CHEM 1311/1111 General Chemistry I

CHEM 1312/1112 General Chemistry II

GEOL 1301/1101 Earth Sciences for Non-Science Majors I

GEOL 1303/1103 Physical Geology

GEOL 1304/1104 Historical Geology

GEOL 1305/1105 Environmental Science

Social and Behavioral Science (3 hours)

CRIJ 1307 Crime in America

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Macroeconomics

GEOG 1303 World Regional Geography

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan, Growth & Development

SOCI 1301 Introduction to Sociology

SOCI 1306 Social Problems

Language, Philosophy, Culture/Creative Arts (3 hours)

ARTS 1301 Art Appreciation

DRAM 1310 Stagecraft I

HUMA 1301 Introduction to the Humanities

HUMA 1302 Introduction to the Humanities II

MUSI 1306 Music Appreciation

PHIL 1301 Introduction to Philosophy

Component Area Option (6 hours)

EDUC OR PSYC 1300 Learning Frameworks

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1321 Business & Professional Communication

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical and Business Writing

SPAN 1411 Beginning Spanish I

SPAN 1412 Beginning Spanish II

**Any of the courses listed above in the previous Component Areas may be used for the hours toward the Component Area Option.

WLDG 1421 - Introduction to Welding Fundamentals

An introduction to the fundamentals of equipment used in oxyacetylene and arc welding including welding and cutting safety, basic oxyacetylene welding and cutting, basic arc welding processes and basic metallurgy.

Upon completion, students will be able to:

- Learn fundamentals of equipment used in oxyacetylene and arc welding
- Basic arc welding processes and basic metallurgy.

Grade Basis:

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

WLDG 1428 - Introduction to Shielded Metal Arc Welding (SMAW)

An introduction shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions.

Upon completion, students will be able to:

- Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

WLDG 1430 - Introduction to Gas Metal Arc (MIG) Welding

A study of the principles of gas metal arc welding, setup and use of GMAW equipment, and safe use of tools/equipment. Instruction in various joint designs.

Upon completion, students will be able to:

- Learn safe use of tools/equipment

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

WLDG 1434 - Introduction to Gas Tungsten Arc (TIG) Welding

An introduction to the principles of gas tungsten arc welding (GTAW), setup/use of GTAW equipment and safe use of tools and equipment. Welding instruction in various positions on joint designs.

Upon completion, students will be able to:

- Principles of gas tungsten arc welding
- setup/use of GTAW equipment

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

WLDG 1435 - Introduction to Pipe Welding

An introduction to welding of pipe using the shielded metal arc welding process (SMAW), including electrode selection, equipment setup, and safe shop practices. Emphasis on weld position 1G and 2G using various electrodes.

Upon completion, students will be able to:

- Emphasis on weld position 1G and 2G using various electrodes.
- Welding of pipe using the shielded metal arc welding process

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [WLDG 1421](#) - Introduction to Welding Fundamentals
 - [WLDG 1428](#) - Introduction to Shielded Metal Arc Welding (SMAW)
-

WLDG 1457 - Intermediate Shielded Metal Arc Welding (SMAW)

A study of the production of various fillets and groove welds. Preparation of specimens for testing in all test positions. Prerequisites; WLDG 1421, Introduction to Welding Fundamentals and WLDG 1428, Introduction to Shielded Metal Arc Welding (SMAW)

Upon completion, students will be able to:

- learn fillets and groove welds
- Preparation of specimens for testing in all test positions

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [WLDG 1421](#) - Introduction to Welding Fundamentals
 - [WLDG 1428](#) - Introduction to Shielded Metal Arc Welding (SMAW)
-

WLDG 2447 - Advanced Gas Metal Arc (MIG) Welding

Advanced topics in GMAW welding, including welding in various positions and directions.

Upon completion, students will be able to:

- learn welding in various positions and directions.

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [WLDG 1430](#) - Introduction to Gas Metal Arc (MIG) Welding
-

WLDG 2451 - Advanced Gas Tungsten Arc (TIG) Welding

Advanced topics in GTAW welding, including welding in various positions and directions. Prerequisite: WLDG 1434, Introduction to Gas Tungsten Arc (TIG) Welding.

Upon completion, students will be able to:

- Introduction to Gas Tungsten ARC (TIG) Welding

Grade Basis: L

Credit hours: 4.0

Lecture hours: 2.0

Lab hours: 6.0

Prerequisites:

- [WLDG 1434](#) - Introduction to Gas Tungsten Arc (TIG) Welding
-

Last updated: 08/14/2017

Grayson College

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