Grayson College Catalog 2025-2026

Policies

General Information

Mission

The mission of Grayson College is Student Success.

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. Workforce development programs designed to meet local and statewide needs;
8. Adult literacy and other basic skills programs for adults; and
9. Such other purposes as may be prescribed by the Texas Higher Education Coordinating Board or local governing boards in the best interest of post-secondary education in Texas.

Vision

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

Viking Values

The Viking Values are Balance, Trust, Clarity, Teamwork, Service, and Gratitude.

Accreditation

Institutional Accreditation

Grayson College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award certificates, associate degrees, and baccalaureate degrees. Grayson College also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Grayson College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, by calling 404.679.4500, or by using information available on SACSCOC's website (www.sacscoc.org).

Other Accreditations

- Accreditation Commission on Education in Nursing
- Commission on Dental Accreditation
- American Dental Association
- The National Accrediting Agency for Clinical Laboratory Sciences
- 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

Affiliations

- The Texas Higher Education Coordinating Board
- The Texas Board of Nursing
- The Texas Association of Community Colleges
- The College Reading and Learning Association
- The Northern Texas Junior College Athletic Conference
- National Junior College Athletic Association

- National Junior College Athletic Association - Esports
- Texas Association of Career Technical Education

Statement of Non-Discrimination/Equal Opportunity Policy

Grayson College strives to maintain a healthy and safe environment where all members of its campus community play a vital role in preventing acts that violate Graysons College's Core Values of Balance, Trust, Clarity, Teamwork, Service, and Gratitude.

Grayson College does not discriminate, either for or against any individual, based on race, creed, color, gender, national origin, age, religion, or disability. This policy applies to student admissions and education; access to student loans, grants, scholarships, and employment opportunities; hiring and promotion of both teaching and non-teaching staff; and all student and faculty activities on College property.

Grayson College complies with the Title IX Education Amendments of 1972 which prohibits discrimination, including harassment, against any student on the basis of sex in any educational program and College-sanctioned activity. Procedures are in place to respond to allegations of sexual harassment, discrimination, and violence.

Visit the Grayson College Title IX web page (grayson.edu/title-ix/) at for more details. Contact the Title IX office at TitleIX@grayson.edu with any questions or reports.

Declaración Sobre el Plan de Acción de Igualdad de Oportunidad

Grayson College no discrimina, ni a favor ni en contra de ninguna persona, por motivo de raza, credo, color, género, origen nacional, edad, religión o discapacidad. Esta política se aplica a la admisión y educación de estudiantes; el acceso a préstamos estudiantiles, becas, subvenciones y oportunidades de empleo; la contratación y promoción de personal docente y no docente; y todas las actividades estudiantiles y académicas dentro de las instalaciones del Colegio.

Grayson College cumple con las Enmiendas de Educación del Título IX de 1972, las cuales prohíben la discriminación, incluido el acoso, contra cualquier estudiante por motivo de sexo en cualquier programa educativo y actividad sancionada por el Colegio. Se han establecido procedimientos para responder a denuncias de acoso sexual, discriminación y violencia.

Visite el sitio web de Título IX de Grayson College (grayson.edu/title-ix/) para más detalles. Para cualquier pregunta o denuncia, comuníquese con la oficina de Título IX en **TitleIX@grayson.edu**.

Accessibility Services

The College is committed to meeting the needs of students with disabilities and coordinates with agencies such as Texas Vocational Rehabilitation Services and Texas Department of Human Resources to provide appropriate accommodations.

Students with documented disabilities should contact the Coordinator of Tutoring and Accessibility Services in the Student Success Center on the Main campus, preferably before classes start or as early in the semester as possible. Once appropriate documentation for the disability is received, the Coordinator of Tutoring and Accessibility Services will coordinate delivery of approved accommodations with students and their instructors. The College makes the following services available to students with documented disabilities: audio recording/note taking technology, text-to-speech, speech-to-text, sign language interpreters/CART services, testing accommodations, textbooks in alternative format, and other appropriate accommodations.

Pregnancy, Parenting, and Related Conditions

In accordance with Title IX (https://www.justice.gov/crt/title-ix-education-amendments-1972) and Texas Education Code Section 51.982 (https://statutes.capitol.texas.gov/?tab=1&code=ED&chapter=ED.51&artSec=51.982), Grayson College provides reasonable accommodations to students who are pregnant, parenting, or that have pregnancy-related conditions. Title IX rights and protections can be found at the Grayson College Title IX Pregnancy, Parenting, and Related conditions web page. (grayson.edu/title-ix/pregnant-and-parenting.html). Additional resources are available to provide wrap-around support for all students that are pregnant, parenting, and/or experiencing related conditions through Grayson Cares, as described on the Grayson Cares Family Program website (grayson.edu/grayson-cares/family-program.html)

Family Rights & Privacy Act

The Family Educational Rights and Privacy Act (FERPA) (20 U.S.C. § 1232g; 34 CFR Part 99) is a Federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education.

FERPA gives parents certain rights with respect to their children's education records. These rights transfer to the student when he or she reaches the age of 18 or attends a school beyond the high school level. Students to whom the rights have transferred are "eligible students."

- Parents or eligible students have the right to inspect and review the student's education records maintained by the school. Schools are not required to provide copies of records unless, for reasons such as great distance, it is impossible for parents or eligible students to review the records. Schools may charge a fee for copies.
- Parents or eligible students have the right to request that a school correct records which they believe to be inaccurate or misleading. If the school decides not to amend the record, the parent or eligible student then has the right to a formal hearing. After the hearing, if the school still decides not to amend the record, the parent or eligible student has the right to place a statement with the record setting forth his or her view about the contested information.
- Generally, schools must have written permission from the parent or eligible student in order to release any information from a student's education record. However, FERPA allows schools to disclose those records, without consent, to the following parties or under the following conditions (34 CFR § 99.31):
    - School officials with legitimate educational interest;
    - Other schools to which a student is transferring;
    - Specified officials for audit or evaluation purposes;
    - Appropriate parties in connection with financial aid to a student;
    - Organizations conducting certain studies for or on behalf of the school;
    - Accrediting organizations;
    - To comply with a judicial order or lawfully issued subpoena;
    - Appropriate officials in cases of health and safety emergencies; and
    - State and local authorities, within a juvenile justice system, pursuant to specific State law.

Schools may disclose, without consent, "directory" information such as a student's name, address, telephone number, date and place of birth, honors and awards, and dates of attendance. However, schools must tell parents and eligible students about directory information and allow parents and eligible students a reasonable amount of time to request that the school not disclose directory information about them. Schools must notify parents and eligible students annually of their rights under FERPA. The actual means of notification (special letter, inclusion in a PTA bulletin, student handbook, or newspaper article) is left to the discretion of each school.

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:

- Student name
- Student address
- Telephone number
- College email address
- Date and place of birth
- Honors and awards
- Dates of attendance
- Photograph / visual likeness
- Other information including a 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 a written request to the Registrar's 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 the custodian of all records for currently enrolled students and for students who have withdrawn or graduated. The Registrar is located in the Registrar's Office in the Student Affairs Building, on the Main Campus.

Access to Public Information: Requests for Public information must be made in writing and delivered to the Public Information Officer (publicinformation@grayson.edu) via email, postal mail or in person. GC uses its fiscal year, September 1 through 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 of 18) NOT want to be photographed or recorded, or have their name or “directory” information used in connection with any such recording, that person must notify the College in writing and submit to the Registrar's Office (students) and Human Resources Office (employees).

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 (SBDC) is a non-profit professional management counseling service funded by Grayson College and the United States Small Business Administration and the State of Texas. Grayson SBDC helps to enhance the economic development of the North Texas area. The SBDC offers individual business advising at no cost to the client. Areas of advising include new business start-ups, 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 businesses 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 to address specific needs. The Grayson College SBDC’s advising services are completely confidential and available to all Grayson and Fannin County residents.

Grayson College Foundation, Inc.

Mission - Fulfilling donor wishes through student success.

Vision - To be the premier foundation for the benefit of Grayson College, students, and community.

Purpose - The Grayson College Foundation's purpose is to raise philanthropic gifts for the benefit of Grayson College, its students, faculty, and staff.

Grayson College Foundation Scholarship Program

The Grayson College Foundation offers scholarships to students entering and attending Grayson College. Scholarships range from $500 to $5,000. Each award will be divided between the fall and spring semesters. Scholarships may be used for tuition, fees, necessary classroom supplies, books, educational expenses, or room and board. The scholarship applications can be found on the Grayson College scholarships website (https://www.grayson.edu/scholarships/)

Scholarship Eligibility Criteria

Applicant should meet the following criteria to be eligible for a scholarship:

- Minimum 2.0 GPA on a scale of 4.0, unless otherwise specified for a specific scholarship
- Must be enrolled as a student at Grayson College; and
- Must be enrolled in a minimum of six credit hours at Grayson College

Awarding Cycle

Grayson College Foundation scholarships are awarded once each academic year. Scholarship awards are only available for the fall and spring semesters. Scholarships are only available in the semester for which they are awarded and will not roll over to subsequent semesters. Foundation scholarship awards are not transferable to an alternate college/university. Recipients must maintain a minimum GPA for their respective scholarship awards in order to retain scholarship eligibility for the subsequent semester.

Scholarship Renewal

Scholarship renewal is not automatic. Recipients who held a scholarship during the previous academic year are required to submit a new scholarship application for the current academic year. Renewal awards will be based on the scholarship criteria.

Maximum Award Eligibility

Grayson College Foundation scholarships are awarded to qualified recipients for a maximum of three and a half (3.5) years. Depending on the value of the scholarship award or program recommendation, an applicant could receive more than one scholarship award.

Police Department

Mission Statement

The Grayson College Police Department will contribute to Grayson College having a safe and secure educational environment by providing a professional law enforcement department dedicated to deterring crime, educating and ensuring personal safety, and effective emergency management planning through joint partnership with our entire college community.

Vision Statement

As an effective law enforcement and educational policing agency the department will strive to:

- Keep our community safe and informed through respectful interaction and equitable application of the law;
- Adhere to the educational policing standards by combining innovative crime prevention programs with law enforcement strategies that create an optimal learning environment for student success;
- Build positive relationships with our campus communities and service area through collaboration; and
- Be a valued asset by providing the maximum level of service in a professional and courteous manner.
- Uphold compliance to the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (20 USC § 1092(f)) (clerycenter.org)

Grayson College adheres to the Clery Act, Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (20 USC § 1092(f)) (https://www.clerycenter.org). The Clery Act is a federal law that requires colleges and universities across the United States to disclose information about crime on and around their campuses. More information can be found on the Grayson College Clery Act webpage, (https://www.grayson.edu/campus-life/campus-police/clery-and-vawa.html)

Tuition and Mandatory Fees

Mandatory fees include student services, technology, and general use fees. Students will also be assessed matriculation and student ID fees, and some classes have additional laboratory fees, which are listed on this page. The schedule of combined tuition and mandatory fees presented below is intended to assist students in estimating their educational costs. The following tuition and mandatory per credit hour fee rates have been implemented for 2026-2027.

2026-2027 Tuition Rates

Base Tuition and Fees per Credit Hour

Fee Type	In-District	Out-of-district	Non-resident
Tuition	$50	$100	$160
Fees	$52	$52	$52
Total Tuition Rate per Credit with Fees	**$102**	**$152**	**$212**

Per Credit Hour Fees include the Student Service Fee, General Use Fee, and Technology Fee

Differential Tuition for Viticulture, Associate Degree Nursing, and Bachelor of Science in Nursing Programs

In addition to the base tuition rate, the following tuition rate per credit hour will be charged for courses with the following subjects: FDST, RNSG, NURS

Viticulture, Associate Degree Nursing, and Bachelor of Science in Nursing Differential Tuition Rate

Status	Rate
In District	$59 per credit hour
Out of District	$95 per credit hour
Non-resident	$155 per credit hour

Total Combined Tuition Rates with Mandatory Per-credit Fees by Credit Hour

$200 minimum tuition, plus fees

Total Tuition Rate with Fees by Credit Hour

Semester Hours	In District Tuition	Out of District Tuition	Non-Resident Tuition
1	$102	$152	$212
2	$204	$304	$424
3	$306	$456	$636
4	$408	$608	$848
5	$510	$760	$1060
6	$612	$912	$1272
7	$714	$1064	$1484
8	$816	$1216	$1696
9	$918	$1368	$1908
10	$1020	$1520	$2120
11	$1122	$1672	$2332
12	$1224	$1824	$2544
13	$1326	$1976	$2756
14	$1428	$2128	$2968
15	$1530	$2280	$3180
16	$1632	$2432	$3392
17	$1734	$2584	$3604
18	$1836	$2736	$3816
19	$1938	$2888	$4028
20	$2040	$3040	$4240

Semester Hours	In District Tuition	Out of District Tuition	Non-Resident Tuition
21	$2142	$3192	$4452

Mandatory Fees

Per Credit Hour

Student Services Fee
: $14.50 per semester hour

General Use Fee
: $32.50 per semester hour

Technology Use Fee
: $5.00 per semester hour

Per Semester

Matriculation Fee
: $20.00 per semester, non-refundable

Student ID Card Fee
: $6.00 per semester, non-refundable

Victor E Bundle (Course Materials Fee - *may opt-out*)
: $27.50 per semester hour + tax ($29.22 per semester hour)

Victor E. Bundle Textbook and Course Material Program

Victor E. Bundle is a course material delivery model that simplifies the student experience, lowers the cost of materials and ensures students have access to all of their required course materials on or before the first day of class. Through this innovative program, physical books are conveniently packaged and provided to students on a rental basis, and access to digital material is linked directly within Canvas for $27.50 plus tax per credit hour for the 25-26 academic year. At the end of the term, students will receive email reminders to return rented physical course materials to the bookstore. For more information, please visit https://www.grayson.edu/victor-e-bundle

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 Registrar's office to audit a course. Students should email registrar@grayson.edu to request the form. If paperwork is not submitted by the 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 that are published on the Academic Calendar. Payments may be made in the Business Office. Payments can also be made in MyViking Student Planner. A payment plan is available through MyViking (Nelnet). Payments that are not made by the deadline will result in the student being purged for non-payment. If the term has not started yet, the student can potentially get re-enrolled in the course and make payment immediately following enrollment to remain registered. After the term starts, if an error was made by the institution resulting in the student being purged for non-payment and the student requests reinstatement before the close of business the following business day from being removed from the course, the institution will consider reinstatement in the course that the student was purged from. When a student is purged from courses, it can result in being removed from future terms.

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 who 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 exceeds 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 exceeds 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, a 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 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 their 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 contact the Registrar’s Office before the beginning of their last semester to request a waiver of the Third Attempt "Rider 50" Tuition. The student must notify the Registrar’s Office 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 Registrar 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 record. Holds on the student record may prevent registration in future/upcoming semesters. Unofficial transcripts are available to the student by contacting the Registrar’s Office or through MyViking

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. All students who are not U.S. citizens or Permanent Residents must file residency packets which include residency core questions and a list of documents to establish Texas residency for tuition purposes.

1. In-District Rate: Charged to 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 in which the student enrolls.
2. Out-of-District Rate: Charged to a student who is a resident of Texas (as defined by the Texas Education Code, Section 54.075) and who resides outside of Grayson County on the census date of the term of enrollment.
3. Non-Resident Rate: Charged to an individual who has not resided in Texas for 12 months preceding registration or is otherwise ineligible for Texas Residency determination. Anyone who enrolls as a non-resident of Texas is presumed to remain in that classification as long as they continue as a student. All F-1 VISA students are considered non-resident during their studies in the US.

NOTE: Oklahoma residents are classified as non-residents but receive a waiver to reduce charges to the same rate as out-of-district rates.

The responsibility for registering under the proper residency classification is that of the student, and any questions 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 Resident Determination Official at texas-residency@grayson.edu. The Resident Determination Official in the Registrar's Office handles all residency appeals. The initiation of a residency appeal and submission of sufficient supporting documentation is the responsibility of the student.

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 Office of Admissions and Records 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 Advising 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 drop classes, as well as withdraw from the college by visiting their Success Coach in Advising. Students must send the request to drop a course to their instructor through the MyViking email address or through CANVAS. Otherwise, if the student is requesting a full withdrawal, they can email their Success Coach through the MyViking email address.

Students enrolled in semester credit hour courses who officially withdraw their semester credit hour load at Grayson College shall have tuition and mandatory fees refunded according to the following schedule. Refunds for courses with unique scheduling will be processed according to state guidelines. Specific dates for all terms are located in the Academic Calendar located on the college website.

16 WEEK TERM REFUND POLICY

Withdrawal Date	Refund Amount
Prior to the first class day	100%
During the first fifteen class days	70%
During the sixteenth through the twentieth class day	25%
Thereafter	None

8 WEEK TERM REFUND POLICY

Withdrawal Date	Refund Amount
Prior to the first class day	100%
During the first eight class days	70%
During the tenth class day	25%
Thereafter	None

5 WEEK TERM REFUND POLICY

Withdrawal Date	Refund Amount
Prior to the first class day	100%
During the first five class days	70%
During the sixth class day	25%
Thereafter	None

4 WEEK TERM REFUND POLICY

Withdrawal Date	Refund Amount
Prior to the first day of class	100%
During the first four class days	70%
During the fifth class day	25%
Thereafter	None

3 WEEK TERM REFUND POLICY

Withdrawal Date	Refund Amount
Prior to the first day of class	100%
During the first three class days	70%
During the fourth class day	25%
Thereafter	None

For the purpose of the refund policy, a class day is defined as a day during which college classes are conducted, Monday through Friday (for fall and spring semesters), and Monday through Thursday (for the summer semester). The count begins with the first-day of the term and includes each consecutive class day thereafter. The count is not based on the number of times a particular class has met and does not include holidays in which campus is closed. The first class day and other important dates are listed in the Academic Calendar located on the college website.

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:

1. Federal Direct Unsubsidized and Subsidized Loans
2. Federal Pell Grant
3. Federal Supplemental Educational Opportunity Grant (FSEOG)
4. Other Title IV Programs
5. Other state, private, or institutional student financial assistance programs.

Students receiving Title IV funds (Pell, other federal grants and student loans) who subsequently withdraw from classes, or do not begin attendance in all courses, may be required to return all or a portion of the federal financial aid received in a process called calculation of Return to Title IV (R2T4). 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.

Tuition and fees refunds will be processed two to three weeks after the census date of the appropriate term. Financial Aid disbursements are applied to the student's statement balance first. Remaining funds that are eligible for reimbursement will be processed within three business days after receipt from the funding source. Students may set up a direct deposit or credit/debit card in MyViking. Checks will be mailed to the billing address listed on the student's account.

Residence Life

Students interested in living on campus might consider a Residence Hall. The residential 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.

Ralph T. Jones Hall has a main lounge area for entertaining guests, as well as study lounges, televisions with streaming service capabilities, and wireless Internet access. The hall is equipped with free laundry facilities and has a live-in supervisor and other staff. Students living in the residence hall must purchase a meal plan. All students wishing to reside on campus must have an approved background check on file prior to moving in.

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.

Room charges per semester cost

JONES HALL ROOM COST

Room	Semester Cost
Single Occupancy Room	$1,825
Double Occupancy Room	$1,525
Quad Occupancy Room	$1,225

NEW HALL ROOM COST

Room	Semester Cost
Single Occupancy Room	$2,000
Double Occupancy Room	$1,675
Quad Occupancy Room	$1,350

Deposit: $100 - Refundable (one-time charge)

Application Fee: $100 - Non-refundable (one-time charge prior to first semester of on-campus living)

19 Meal Per Week Plan: $2,580 plus tax

The application for campus housing can be found on the College website under Residence Life (grayson.edu/campus-life/residence-life/). For additional information, contact the Residence Life Office (reslife@grayson.edu)

Lab Fees

Required Course Fees

Laboratory courses require the payment of specified fees to pay for supplies, expendables, maintenance of equipment used by students, and/or testing in the particular course. Digital textbook charges that are attached to a specific course or section will be considered a fee. The college reserves the right to amend the fee schedule to reflect the changing costs of supplies. The following fees, as applicable, are payable at registration.

Course or Category	Fee
Accounting (ACCT 2301, 2302)	$12.00
Advanced Manufacturing (MCHN 1320,1326, 1408, 1413, 1438, 1454, 1458, 2402, 2433, 2437, INMT 1417, 1419, OSHT 1401)	$40.00
Advanced Manufacturing (MCHN 1371)	$300.00
Agricultural Sciences (AGRI 1107, 1115, 1119)	$24.00
Agribusiness Management (AGCR 2302)	$165.00
Agribusiness Management (ACEQ 1301)	$300.00
Agribusiness Lab Fees (SCIT 1305, AGCR 1403, 2305)	$24.00
Art (ARTC, ARTS 1311, 1312, 1316, 1317, 1325, 2311, 2316, 2317, 2323, 2326, 2333, 2346, 2347, 2348, 2366, 2389)	$40.00
Barbering (BARB 1402, 1442, 2431, 2441)	$48.00
Biology labs (BIOL 1106, 1107, 1108, 1109, 2101, 2102, 2120, 2121)	$24.00
Biology Consumable Supplies (BIOL 1106, 1107 ,1108, 1109, 2101, 2102, 2120, 2121)	$15.00
Business (BUSI 1301, BUSI 2305)	$15.00
Chemistry Lab Fee (CHEM 1109, 1111, 1112, 2123, 2125)	$24.00
Chemistry Consumable Supplies (CHEM 1109, 1111, 1112, 2123, 2125)	$24.00
Child Development/Education (CDEC 1313, 1317, 1319, 1321, 1322, 1323, 1330, 1335, 1339, 1343, 1356, 1358, 1359, 2166, 2186, 2264, 2304, 2307, 2315, 2322, 2324, 2326, 2328, 2336, 2340, 2341, 2380, 2384, EDUC 1301, 2301, TECA 1303, 1311,1318, 1354)	$15.00
Computer Science (COSC 1301, 1320, 1336, 1437, 2425, 2436)	$48.00
Computer Maintenance & Networking Technology (CPMT 1303, 1311, 1345, 1349, 1391, 2345, 2350, 2388, 2389, 2688, EECT 1407, ITNW 1308,1309, 1325, 1351, 1354, 1392, 2305, 2327, 2355, ITSC 1305, 1309, 1316, 1325, 1342, 1391, 2321, 2325, 2339, ITSE 2317, 2386, ITSY 1300, 2317)	$24.00
Computer Science & Computer Technology Exam (ITSY 1300)	$275.00
Computer Maintenance and Networking Technology (CPMT 1311, 1345) Course Fee	$250.00
Cosmetology Lab Fees (CSME 1348, 1401, 1405, 1410, 1430, 1431, 1441, 1443, 1447, 1451, 1453, 1521, 1545, 1547, 2430, 2431, 2439, 2441, 2501)	$48.00
Cosmetology Manikin Head (CSME 1401)	$200.00
Cosmetology Consumable Supplies (CSME 1348, 1410, 1441, 1443, 1547)	$50.00
Cosmetology Liability Insurance (CMSE 1348, 1401, 1430, BARB 1402)	$15.00
Criminal Justice (CRIJ 2314)	$24.00
Culinary Arts / Hospitality Management (CHEF 1301, 1302, 1310, 1314, 1345, 2331, HAMG 2337, PSTR 1301 1305, 1306, 1340, 2343, 2331 and RSTO 1304)	$72.00
Culinary Arts / Hospitality Management (CHEF 1301, 1302, 1310, 1314, 1345, 2331, PSTR 1301, 1305, 1306, 1340, 1343, 2331, RSTO 1304)	$50.00
Culinary Arts / Hospitality Management ACF/TCA Membership (CHEF 1305, 1164)	$25.00
Culinary Arts / Hospitality Management Course Fee (CHEF 1301)	$350.00
Dental Assisting (DNTA 1245, 1251) Lab Fees	$48.00
Dental Assisting (DNTA 1301, 1305, 1315, 1349, 1353) Lab Fees	$72.00
Dental Assisting (DNTA 1245, 1251) Consumable Supplies	$47.00
Dental Assisting (DNTA 1301, 1305, 1315, 1349, 1353) Consumable Supplies	$23.00

Course or Category	Fee
Dental Assisting (DNTA 1460) Drug Screen / Background Check	$135.00
Dental Assisting (DNTA 1305, 1349) Dosimetry Badges	$25.00
Dental Assisting (DNTA 1245) Liability Insurance	$15.00
Dental Assisting (DNTA 1315) Uniforms	$200.00
Drafting /CADD (DFTG 1309, 1317, 1405, 1413, 1425, 1430, 1433, 1445, 2331, 2402, 2412, 2419, 2427, 2428, 2438, 2440, 2486)	$48.00
Drama (DRAM 1120, 1121, 1342, 2120, 2121, 2335, 2389)	$24.00
Drama (DRAM 1330, 1341, 2331)	$40.00
Electrical Engineering Technology (EECT 1104)	$24.00
Electrical Engineering Technology (CETT 1331, 1403, 1405, 1425, 1441, ELMT 1402, HYDR 1445, PTAC 1332, 1408, 2332, 2346, RBTC 1355)	$72.00
Electrical Technology (ELMT 1311, ELPT 1311, 1329, 1343, 1345, 1364, 1380, 1441, 2305, 2319, 2337, 2343, ELTN, 1391, FCEL 1305	$72.00
Electrical Technology (ELPT 1221, 1291)	$24.00
EMSP (EMSP 1501, 2544 Lab Fees)	$120.00
EMSP (EMSP 1438, 1455, 2434) Lab Fees	$96.00
EMSP (EMSP 1356, 2330) Lab Fees	$72.00
EMSP (EMSP 2206, 2237) Lab Fees	$48.00
EMSP (EMSP 2137, 2143) Lab Fees	$24.00
EMSP (EMSP 2143) Nat'l Registry & Skills Testing-Paramedic	$200.00
EMSP (EMSP 1438) Drug Screen & Background Check	$100.00
EMSP (EMSP 1501) Drug Screen & Background Check	$100.00
EMSP (EMSP 1438) Skills & Capstone Testing-Paramedic	$240.00
EMSP (EMSP 1501) Skills & Capstone Testing-EMT	$150.00
EMSP (EMSP 1438) Paramedic Uniforms	$175.00
EMSP (EMSP 1501) EMT Uniforms	$140.00
EMSP (EMSP 2137) Simulation Fees	$50.00
EMSP (EMSP 1160, 2137) SurScan	$35.00
EMSP (EMSP 2237) Simulation Fees	$50.00
EMSP (EMSP 1160, 1161) Liability Insurance	$15.00
EMSP (EMSP 1160) PPE/Lab Kit	$125.00
EMSP (EMSP 1161) PPE/Lab Kit	$135.00
Engineering (ENGR 2305) Lab Fee	$24
Engineering (ENGR 2305) Course Fee	$24
Geology Labs (GEOL 1101, 1103, 1104, 1105)	$10.00
HART (HART 1401, 1407, 1441, 1445, 2436, 2442, 2445, 2449)	$60.00
Medical Laboratory Technology (MLAB 1127) Lab Fees	$24.00
Medical Laboratory Technology (MLAB 1201, 1231) Lab Fees	$48.00
Medical Laboratory Technology (MLAB 1315, 1335, 2331, 2401) Lab Fees	$50.00
Medical Laboratory Technology (MLAB 2660) Liability Insurance	$15.00
Medical Laboratory Technology (PLAB 1160) Liability Insurance	$15.00
Medical Laboratory Technology (MLAB 2238) Simulation Fee	$50.00
Medical Laboratory Technology (MLAB 1335) SurScan	$35.00
Medical Laboratory Technology (MLAB 2660) Clinical Software	$75.00
Music Class (MUEN 1124, 1131, 1132, 1133, 1134, 1135, 1141, 2124, 2131, 2132, 2133, 2134, 2141, MUSB 1305, 1301, MUSC 1235, 1327, 2327, MUSI 1116, 1117, 1157, 1181, 1182, 1183, 1192, 2116, 2117, 2181, 2182, MUSP 1110)	$24.00
Music Private Lessons: Half Hour (MUAP 1101, 1105, 1109, 1113, 1115, 1117, 1121, 1125, 1129, 1133, 1137, 1141, 1145, 1153, 1158, 1161, 1169, 1170, 1181, 1187, 2101, 2105,	$275.00

Course or Category	Fee
2109, 2113, 2115, 2117, 2121, 2125, 2129, 2133, 2137, 2141, 2145, 2153, 2158, 2161, 2169, 2170, 2181, 2187)	
Music Private Lessons: One Hour (MUAP 1201, 1205, 1209, 1213, 1215, 1217, 1221, 1225, 1229, 1233, 1237, 1241, 1245, 1253, 1258, 1261, 1269, 1270, 1281, 1287, 2201, 2205, 2209, 2213, 2215, 2217, 2221, 2225, 2229, 2233, 2237, 2241, 2245, 2253, 2258, 2261, 2269, 2270, 2281, 2287)	$550.00
Nursing (RNSG 1105, 1140) Lab Fees	$24.00
Nursing (RNSG 1105, 1140) Consumable Supplies	$250.00
Nursing (RNSG 1160, 1162) Drug Screen/Background Check	$135.00
Nursing (RNSG 1151, 2101) Standardized Exam	$50.00
Nursing (RNSG 2231) Standardized Exam - Exit	$50.00
Nursing (RNSG 1413, 1417) Standardized Exam	$50.00
Nursing (RNSG 2213) Standardized Exam	$50.00
Nursing (RNSG 1160, 1162, 1260, 1261, 1262) Simulation Fees	$100.00
Nursing (RNSG 1160, 1162, 1261) Liability Insurance	$15.00
Nursing (RNSG 2130) Review Course	$375.00
Office Technology (POFI 1301, 2301, POFT 1120, 1220 1301, 1313, 2303, 2312, 2331, POFM 1317, HITT 1305, 1311, 1341, 1353, 2346, ITSW 1304, 1307, 2437)	$12.00
Office Technology (POFT 1391, 2391, TRVM 2301)	$48.00
Phlebotomy (PLAB 1160) Liability Insurance	$15.00
Phlebotomy (PLAB 1223) Drug Screen/Background Check	$100.00
Physics (PHYS 1101, 1102, 1103, 1104, 1115, 2125, 2126)	$24.00
Rad Techn (RADR 1309) Skill Fees	$72.00
Rad Tech (RADR 1361) Drug Screen/Background Check	$135.00
Rad Tech (RADR 1313, 2363) Dosimetry Badges	$40.00
Rad Tech (RADR 1361, 2367) EVOS fees	$160.00
Rad Tech (RADR 1361, 2367) Liability Insurance	$15.00
Rad Tech (RADR 1311) Bootcamp Software	$210.00
Reading/Writing (INRW 0210)	$15.00
Surgical Technology (SRGT 1160) Liability Insurance	$15.00
Surgical Technology (SRGT 1660) Drug Screening/Background Check	$135.00
Surgical Technology (SGRT 1405) Skill Fees	$250.00
Surgical Technology (SRGT 2230) Gold Bundle NBSTSA Exam	$250.00
Surgical Technology (SRGT 1409) Uniforms	$140.00
Surgical Technology (SRGT 1409) Lab Fee	$24.00
Viticulture/Enology (FDST 1320, 1323, 1370 ,2319, 2320, 2330, 2355, 2371, 2372, 2373, 2374, 2375, 2433)	$72.00
Viticulture/Enology (FDST 1270, 1271, 1272, 1273, 1274, 1291)	$48.00
Vocational Nursing (VNSG 1502) Lab Kit	$375.00
Vocational Nursing (VNSG 1162) Lab Fees	$24.00
Vocational Nursing (VNSG 1360, 1361) Lab Fees	$72.00
Vocational Nursing (VNSG 2510) Standardized Test Exit	$75.00
Vocational Nursing (VNSG 1230, 1304, 1334) Standardized Test	$75.00
Vocational Nursing (VNSG 1502, 1509) Lab Fees	$80.00
Vocational Nursing (VNSG 1360) Drug Screen / Background Check	$135.00
Vocational Nursing (VNSG 1360) Liability Insurance	$15.00
Vocational Nursing (VNSG 1262, 1361) Simulation Fees	$80.00
Vocational Nursing (VNSG 1304) Digital Textbook Supplement	$95.00
Vocational Nursing (VNSG 2510) Review Course	$375.00

Course or Category	Fee
Welding Lab Fees (WLDG 1413, 1421, 1428, 1430, 1434, 1457, 2406, 2447, 2451	$96.00
Welding Course Lab Fees (WLDG 1413, 1421, 1428, 143, 1434, 1457, 2406, 2447, 2451)	$50.00

Additional Fees

Some students may have the following fees assessed in addition to required tuition and fees:

Fee Type	Fee
Late Registration fee	$75.00
International Student Application Fee/Evaluation Fee	$100.00
Returned Check Fee	$25.00
Third Attempt "Rider 50" Tuition (per credit hour)	$50.00

Financial Aid and Veteran Services

Financial Aid

The Office of Financial Aid is available to help eligible students meet the cost of attending college. Financial aid opportunities include: scholarships, grants, loans, exemptions, vouchers, work opportunities, and other sources to qualified students enrolled in eligible programs. The level of federal and/or state financial aid provided to students is based upon demonstrated financial need. Processing time is usually three to four weeks; students are encouraged to complete a FAFSA (https://studentaid.gov/h/apply-for-aid/fafsa) as early as possible.

The Department of Education releases the FAFSA application on October 1st of each year. The income information needed to complete the FAFSA is now considered to be the prior-prior year. Example: the FAFSA for the 2026-2027 year will use 2024 income tax returns.

Advantages of filing your FAFSA as early as possible:

- Ample time to submit any documents requested by the Department of Education
- Many state funds are awarded based on priority date of submission
- Time for financial planning for the upcoming school year
- Many awards are allocated by funding amounts (first come, first serve eligibility)

Satisfactory Academic Progress Policy for Financial Aid (SAP)

Regulations for federal and state financial aid programs require that students make satisfactory academic progress (SAP) to be eligible for financial aid funding. SAP consists of three components and **all** three components must be satisfactory in order to be eligible to receive federal and/or state financial aid. SAP will be determined at the end of each semester. It is important to be aware of how this evaluation relates to Title IV and/or State aid and differs from academic requirements and earning a degree. Although standards may differ among colleges, all colleges are required to include certain components detailed below. Students who do not have an academic history at Grayson College (first-time college enrollment or incoming transfer student) are evaluated upon receipt of their FAFSA information and enrollment.

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 a 2.0. Grades of A, B, C, D, and F contribute toward the cumulative GPA.
2. **Pace (Completion Rate):** Students must successfully complete at least 67% of all courses attempted in their academic career (excluding developmental courses).

   Grades of A, B, C, D, P, and S are treated as satisfactorily completed and earned. Grades F, W, and I are not. 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 credits earned or unearned for the purposes of determining pace.

   Pace = Cumulative Earned Hours (Credits) ÷ Cumulative Attempted Hours (Credits)
3. **Max Time Frame:** Students pursuing a degree and/or certificate may not receive financial aid for more than 150% of the attempted credit hours of the published program length as stated in the Grayson College Catalog. Withdrawals, drops, repeated courses, and transfer hours are counted toward the total hours attempted each semester.

Warning / Suspension / Failure to Maintain Satisfactory Academic Progress

Financial Aid Warning: Financial Aid Warning occurs the first semester following when the cumulative grade point average is less than 2.0 and/or cumulative pace is less than 67% for any semester. The Director of Financial Aid and Veteran Services also reserves the right, through professional judgment, to place a student on Financial Aid Warning. There is no need to appeal for Financial Aid Warning. Students will receive financial aid for one additional semester while on warning; this includes student loans. If, by the end of the warning semester, a student is not meeting satisfactory academic progress, the student 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 can no longer mathematically complete the program within the max time frame for their program they will be 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. In some cases, they may regain eligibility when moving from one degree plan to a higher degree plan.

Ex: Certificate to an Associate's or from an Associate's to a Bachelor's degree. A student may also file an appeal to regain eligibility.

Appeal Process: Students placed on Financial Aid Suspension may have the right to appeal due to mitigating circumstance(s) that affected the student's progression toward the successful completion of their program of study. Information regarding the appeal process can be found online on the Satisfactory Academic Progress webpage. (grayson.edu/FinancialAid/satisfactory-academic-progress.html)

Academic Fresh Start: Students who apply and receive approval for Academic Fresh Start (AFS) from the GC Registrar's Office are not exempt from meeting all three components of satisfactory academic progress for financial aid at Grayson College. All courses will be considered in the calculations for satisfactory academic progress components for financial aid, including fresh start. Cumulative GPA, cumulative attempted, and cumulative earned hours will not be recalculated for satisfactory academic progress.

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 student's program and be counted in the calculation for Pace. Courses dropped before census date will not be considered in max time frame or Pace calculation.

Students who withdraw completely from their courses or receive any combination of all F, W, and/or I: Federal regulations require the institution to perform a Return to Title IV (R2T4) calculation for all students who are within this category. Students will be notified of the amount of unearned aid that must be returned to GC and/or the Department of Education.

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 receive the application. To complete a FAFSA electronically, visit the Federal Student Aid Website (https://studentaid.gov/h/apply-for-aid/fafsa). Computers with Internet access are located in the Career and Transfer Center, across from the Office of Financial Aid in the Student Affairs Building.

Students classified as Texas residents who are not eligible to apply for federal financial aid using the Free Application for Federal Student Aid (FAFSA) are encouraged to complete the Texas Application for State Financial Aid (TASFA) and provide applicable documentation as requested by the Office of Financial Aid. The TASFA application can be found on the My Texas Future website (https://www.highered.texas.gov/students-families/tasfa/). Please refer to the Office of Financial Aid DACA webpage for more information. (https://www.grayson.edu/financialaid/undocumented-daca.html)

Financial Aid status can be reviewed by accessing MyViking on the College website.

For more information about requirements, qualifications, and application deadlines, contact the Office of Financial Aid.

Federal Pell Grant: The Federal Pell Grant Program was designed to provide more students with the opportunity to attend college. Grants are based upon financial need and are awarded to eligible students enrolled in an approved degree or certificate program. The length of this grant is limited to six 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.

TEOG Grant (Texas Educational Opportunity Grant): This grant is awarded to Texas residents based on eligibility, financial need, and availability of funds. The purpose of the TEOG Grant program is to provide grant aid to financially needy students enrolled in Texas public colleges.

Texas Public Education Grant (TPEG): This grant is awarded to Texas residents and certain non-residents based on financial need and availability of funds. Students must be enrolled for at least three semester hours of college credit coursework 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 Grayson College 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 and while the borrower is within the time frame of their program length. 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 may be available to students who may not be eligible for the subsidized loans; but may not exceed the limits set by the federal government which are listed on the Grayson College website. The interest rate is determined by the federal government and begins accruing immediately on the date of disbursement. Repayment usually begins six months after the student graduates, drops below half-time, or leaves school.

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 is set by the federal government and

is a variable rate, 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 or a dependent of a veteran, and you are receiving Department of Veteran Affairs (VA) or Hazlewood Educational Benefits, please check with the Office of Financial Aid 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 available on- and off-campus. Applications may be picked up in the Office of Financial Aid or completed via the Student Planner.

Federal Work-Study Program: Grayson College provides 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 are enrolled in at least six semester hours 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) completely fails or 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 aid the student earned as of the student's withdrawal date or last day of academic-related activity (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.

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 Grayson College, they can contact the Business Office at 903.463.8718.

Rehabilitation Assistance

The Department of Assistive and 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

Visit the Grayson College website for a full list of the scholarships available from the Grayson College Foundation.

Financial Aid Exemptions

Visit My Texas Future (https://www.hhloans.com/types-of-financial-aid/) website for a list of State Exemptions. Not all exemptions listed on the website are available at GC. A few of the exemptions that are available at GC are listed below:

Highest Ranking High School Graduate/Valedictorian Exemption:

Available to all Texas public high school valedictorians. This exempts the highest-ranking graduate from the payment of tuition (not fees) during both semesters of the first regular session immediately following their graduation. Students must be meeting SAP requirements to be eligible.

Educational Aide Exemption

Available to certain Educational Aides to complete full teacher certification. This exempts the payment of tuition and certain mandatory fees. Students must be meeting SAP requirements to be eligible.

Firefighters enrolled in Fire Science Courses Exemption:

Available to qualified full-time and volunteer firefighters in the State of Texas. This exempts qualified firefighters (paid and volunteer) from the payment of tuition and laboratory fees for specific fire science courses. Fire Science courses are defined as a course of study primarily related to fire service, emergency medicine, emergency management, or public administration. Students must be meeting SAP requirements to be eligible.

Peace Officers enrolled in Law Enforcement or Criminal Justice Courses Exemption:

Available to qualified Law Enforcement Officers in the state of Texas. This exempts qualified law enforcement officers from the payment of tuition and laboratory fees for specific criminal justice or law enforcement courses. Students must be meeting SAP requirements to be eligible.

Paramedics enrolled in Emergency Medical Services Courses Exemption:

Available to certified paramedics employed in the state of Texas. This exempts qualified paramedics from the payment of tuition and laboratory fees for EMS courses. Students must be meeting SAP requirements to be eligible.

Tuition Exemption for Blind or Deaf students:

Available to students who are blind or deaf to attend public colleges or universities in the State of Texas. This exempts qualified students from the payment of tuition and mandatory fees for any courses attempted. Students must maintain a 2.0 GPA.

Tuition Exemption for students currently or formerly in Foster Care in Texas:

Available to students who are currently or formerly under the conservatorship of the Texas Department of Family and Protective Services (DFPS) and those adopted from DFPS in the State of Texas to attend public colleges or universities in the State of Texas. This exempts qualified students from the payment of tuition and mandatory fees for any courses attempted.

Texas Hazlewood Act Exemption:

The Hazlewood Act is a State of Texas benefit that is offered by the Texas Veterans Commission. This program exempts qualified Veterans, spouses, and dependent children of up to 150 hours of tuition, including most fees, at public institutions of higher education in Texas. This exemption does NOT include living expenses, books (including the Victor E Viking book bundle), course commodities/consumables, late registration fees, retake fees, student service fees, and other supplies. Eligibility criteria and documentation requirements can be found on the Texas Veterans Commission Education website. (https://www.tvc.texas.gov/education/hazlewood/)

Additional information such as satisfactory progress, prorated refunds, and applications for all financial aid and scholarships may be obtained by contacting the Veteran Services Office or accessing the college website. To review your Financial Aid status, award amounts and cost, access MyViking.

Minimum Standards of Progress for Students Receiving Hazlewood Benefits

Satisfactory Progress

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

VA Education Benefits

Grayson College provides a Veteran Services Office (VSO) to assist the enrollment of veterans, war orphans, war widows, and total and permanently disabled veterans, their spouses, and dependents. The VSO also assists active duty service military, reservists, and National Guard members. This office serves as a liaison between Grayson College and the Department of Veteran Affairs (VA), as well as, the Texas Veterans Commission. The VSO is located within the Office of Financial Aid in the Student Affairs Building. Check the website for information concerning required documentation.

Requirements to receive maximum education assistance vary depending upon benefit eligibility. Students should consult the Veteran Services Office or website prior to enrollment. Students can also visit the Veterans Affairs website's 'How to Apply' page (https://www.va.gov/education/how-to-apply/) for more information about their current educational benefits.

Tutorial assistance is available to eligible veterans that qualify.

The Department of Veterans Affairs (VA) 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 obtain a parent letter from the primary institution (university).

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 Academic Calendar. The last date of attendance in a course that 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.

The Department of Veterans Affairs requires that the College interrupt training and report the names of veterans who are placed on academic suspension.

A veteran who applies for admission to Grayson College must submit all official transcripts from all previous colleges attended,as well as the Joint Service Transcript. If any credits earned are applicable toward the degree plan of the student, they will be transferred in by the Office of Admissions and Records.

Graduation

Schools are required to report program completion and/or graduation for students who completed or graduated while using VA education benefits. Once a student completes their program and/or graduates from their approved degree program, GC Veteran Services Office is required to submit a change in student status indicating "Graduation" as the termination reason directly to the VA.

Attendance Policy for Students Receiving VA Educational Benefits

Students using Veterans' benefits attending Grayson College will have attendance monitored until the time the student drops, graduates, or completes the program. Students who fail to attend classes by the census date will be marked as a no-show and may be dropped from the course for non-attendance. The student may also be administratively withdrawn from any course for violation of the program's, or course's, required attendance policy. This action can affect the certification of their enrollment with the VA and/or the Texas Veterans Commission with regards to the Hazlewood Act., potentially leading to a reduction or loss of their education benefits. Additionally, being withdrawn for non-attendance may result in a debt to the VA for any benefits already disbursed for the course. All violations of the attendance policy shall be reported to the VA within 30 days. It is the student's responsibility to confirm their enrollment status with their instructor(s) and take necessary action to avoid unintended drops and potential financial repercussions.

General Academic Policies

Admission Requirements

All materials required for admission to Grayson College should be on file in the Office of Admissions prior to being admitted to the College and registering for courses. A new or transfer student may be conditionally admitted with unofficial transcripts and will be allowed to register, but will be placed on hold until all official transcripts have been received. *Conditionally admitted students have one semester to submit official documents and* ***are not eligible for any financial aid disbursements****.*

Associate degree seeking students are students who have graduated high school or the equivalent or students who are 18 years of age or older without a high school diploma or the equivalent and are seeking college credit towards the completion of a two-year associate degree and/or for transfer to a four-year university.

The student's record is identified by the student's legal name. When there is a discrepancy, we have the right to request supporting documentation, including but not limited to, a signed social security card and photo identification. In the event that the student's name changes while being enrolled at Grayson College, the student will also have to provide the signed course documents along with the updated signed social security card and updated photo identification.

Applicants must complete the following steps to be admitted to the College:

1. Complete the Grayson College Admissions Application on the GC website or the state common application via the Apply Texas website.
2. Students who have completed a high school diploma or the equivalent must provide official GED test scores/ certificate or high school transcript with graduation date and college transcripts from all colleges attended. To be considered official, transcripts must be sent directly to Grayson College from the school or be delivered in a sealed envelope prepared by the school with a printed graduation date.
3. Students who have not completed a high school diploma or the equivalent and are 18 years or older must provide an official high school transcript from the school they last attended and sign a waiver.
4. Students under 22 years of age must provide proof of meningitis vaccination within five years or meet an eligible exception.

Note: Students must meet the Texas Success Initiative (TSI) requirements for reading, writing and/or mathematics intensive courses required for their respective degree or certificate program they are enrolled in. For more information on TSI requirements, students should refer to the TSI Requirements section of the catalog.

Admission to the College does not guarantee admission into special admissions programs, such as Health Sciences or Police Academy, that maintain additional program entrance requirements.

Admission Requirements for Athletes New and Transfer Students

For student athletes who have been recruited to play on one of the college athletic teams, whether a transfer or a recent high school graduate, applicants must complete the following steps to be admitted to the College:

1. Complete the Grayson College Admissions Application on the GC website or the state common application via the Apply Texas website.
2. Students who have completed a high school diploma or the equivalent must provide official GED test scores/ certificate or high school transcript with graduation date and/or college transcripts from all colleges attended. All transcripts for athletes must be official. To be considered official, transcripts must be sent directly to Grayson College from the school or be delivered in a sealed envelope prepared by the school with a printed graduation date.
3. Students under 22 years of age must provide proof of meningitis vaccination within five years or meet an eligible exception.

Note: Student-athletes may be conditionally admitted with unofficial transcripts, but all official documents must be received by the Athletic Department for student-athletes to be eligible. Student-athletes must also meet the Texas Success Initiative (TSI) requirements for reading, writing and/or mathematics intensive courses required for their respective degree or certificate program they are enrolled in. For more information on TSI requirements, students should refer to the TSI Requirements section of the catalog.

Admission Requirements for Transfer Students

Transfer students are degree-seeking students who have previously attended another accredited college seeking to enroll at Grayson College as their home institution.

Applicants must complete the following steps to begin taking classes at GC:

1. Complete the Grayson College Admissions Application on the GC website or the state common application via the Apply Texas website.

2. Provide official copies of all college transcripts from every college attended. To be considered official, transcripts must be sent directly to Grayson College from the school or be delivered in a sealed envelope prepared by the school.
3. Students who have not earned six or more college-level credits from an accredited institution must also submit an official high school transcript with the graduation date posted.
4. Students under 22 years of age must provide proof of meningitis vaccination within five years or meet an eligible exception.

Notes:

- Developmental courses and continuing education courses are not considered transferable.
- Courses not assigned a grade “A” through “D” will not be considered transferable, including withdrawn courses or unsuccessful grades below a “D.”
- Transfer students must follow Texas Success Initiative policies for demonstrating college readiness. The following transfer students are exempt from TSI requirements:
    - A student who has graduated with an associate degree or higher from an institution of higher education;
    - A student who transfers to an institution from a public, private, or independent institution of higher education or an accredited out-of-state institution of higher education and who has satisfactorily completed college-level coursework as determined by the receiving institution; or
    - A student who has previously attended any institution and has been determined to have met college readiness standards by that institution.
- 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 Success Coaches, or the Registrar.
- Grayson College accepts college-level credits from colleges or universities with approved institutional accreditation, provided that the courses were completed successfully.
- Transfer credits are reviewed and processed by the Records Department for posting on the academic transcript. If additional information is needed to complete the transcript evaluation, the Assistant Registrar will connect with all involved. Students may be required to provide course syllabi, faculty credentials, and other supporting documentation for reviewing transferability and/or equivalency.
- A minimum of 25% of degree requirements must be earned at Grayson College.

Admissions Requirements for Career Ready Students

Career-ready certificate-seeking students are students who are enrolled in a workforce credential offered through he appropriate Career Pathway, such as Health Sciences or Industrial Technologies.

Applicants must complete the following steps to begin taking classes at GC:

1. Complete the Grayson College Admissions Application on the GC website.
2. Provide program-specific documents as needed.

Note: Students wishing to enroll in a career-ready program after enrolling in a credit program must contact the Office of Admissions to complete the admissions requirements listed above for associate degree or credit certificate-seeking students.

Admissions Requirements for Dual Credit Students

A dual credit student is a high school student who is taking college courses through a formal agreement between the high school and the College to earn both high school and college credit.

Applicants must complete the following steps to begin taking classes at GC:

1. Complete the Grayson College Admissions Application on the GC website or the state common application via the Apply Texas website.
2. If not TSI exempt or complete, take the TSIA 2.0. Please contact your high school counselor for more information.
3. Ask your counselor to submit qualifying test scores unless enrolling in an exempt program. (TSIA2, ACT, SAT)
4. If applicable, provide vaccination documentation. State law requires that students under the age of 22 who attend classes on a Grayson College campus must provide documentation of meningococcal vaccination within the previous five years, or they may generate and print a conscientious exemption affidavit online at the Meningococcal Vaccination Exemption Website. On-campus students will not be enrolled without documentation.

Admissions Requirements for Concurrent and Early Admissions Students

Early admission and concurrent students are considered non-degree seeking students. Early admission students are students who are not yet in high school and are taking college-level courses for credit. Concurrent students are

students in high school who are taking college courses that are not offered through a formal agreement between the high school and the College. Students may or may not receive high school credit for these courses. The decision to apply these courses towards high school requirements is at the discretion of the high school.

Applicants must complete the following steps to begin taking classes at GC:

1. Complete the Grayson College Admissions Application on the GC website.
2. Students under 22 years of age must provide proof of meningitis vaccination within five years or meet an eligible exception.
3. Parents of these students must complete a Parent Permission and waiver form.

Note: Early admission and concurrent high school students are TSI exempt. However, students must meet college readiness standards for courses designated as math, reading, and/or writing intensive. The student must complete the TSIA 2.0 or provide proof of exemption or waiver. Early admission and concurrent high school students are not eligible for federal financial aid at Grayson College.

Admissions Requirements for Visiting (Transient) or Personal Enrichment

Visiting (transient) students are students who are enrolled at another college or university enrolled in credit courses to transfer to their home institution and are considered to be non-degree seeking at Grayson College. Personal enrichment students are students who are taking a college-level course for their own personal enrichment. The above referenced students are considered non-degree seeking and are not eligible for federal financial aid. A hold will be placed on the student record indicating their status (transient/personal enrichment) to serve as an alert for enrollment requirements.

Applicants must complete the following steps to begin taking classes at GC.

1. Complete the Grayson College Admissions Application on the GC website.
2. Submit an unofficial transcript from their home institution showing their completed coursework as well as the in-progress coursework.
3. Email the Registrar's Office at registrar@grayson.edu upon admission and prior to the census date to request the Request to Audit a Class form.

Note: Visiting and personal enrichment students are not eligible for federal financial aid at Grayson College. Visiting and personal enrichment students are TSI exempt and must meet college readiness standards for courses they intend to enroll in. For information about TSI requirements, please see the TSIA 2.0 section of the catalog. Visiting or transient students that are eligible for completion at Grayson College are eligible to participate in the Pathway Commencement Ceremony providing that they have met the graduation application deadline and have provided all of the official transcripts to be considered for a reverse transfer.

Admissions Requirement for Readmission Students

Any student who has not been enrolled for more than two long semesters or wants to seek admission as another type of student should contact the Admissions Office to update their student record, submit a new application, and complete additional admissions requirements for the new student type. All students who have not attended GC within 12 months are required to update their GC application for admission.

Readmission of Service Members

Grayson College will promptly readmit a service member with the same academic status they had when last attending the school or accepted for admission to the school. This applies to any student who cannot attend school due to military service.

- Grayson College must admit the student with the same academic status, which means:
  - to the same program to which the student was last admitted or, if that exact program is no longer offered, the program that is most similar to that program, unless the student chooses a different program;
  - at the same enrollment status, unless the student wants to enroll at a different enrollment status;
  - with the same number of credit hours or clock hours previously completed, unless the student is readmitted to a different program to which the completed credit hours or clock hours are not transferable; and
  - with the same academic standing (e.g., with the same satisfactory academic progress status) the student previously received.
- Grayson College will promptly readmit the student into the next class or classes in the program beginning after the student provides notice of intent to reenroll, unless the student requests a later date or unusual circumstances require the school to admit the student at a later date.
- Grayson College must readmit a qualifying service member to the next class even if that class is at the maximum enrollment level set by the state unless otherwise unable to do so due to capacity or lab regulations.

- If the student is readmitted to the same program, for the first academic year in which the student returns, the school must assess the tuition and fee charges that the student was or would have been assessed for the academic year during which the student left the school. However, if the student's veterans education benefits or other service member education benefits will pay the higher tuition and fee charges that other students in the program are paying for the year, the school may assess those charges to the student as well.
    - If the student is admitted to a different program, and for subsequent academic years for a student admitted to the same program, the school must assess no more than the tuition and fee charges that other students in the program are assessed for that academic year.

Grayson College designates the Office of Admissions as the office that a student may contact to provide notification of service and notification of intent to return. The cumulative length of the absence and of all previous absences from the school for military service may not exceed five years. Only the time the student spends actually performing service is counted.

Admissions Requirements for Non-Citizens

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 ensure that students can function within the institution with a reasonable chance for success. The purpose of the admissions requirements for non-citizen students, therefore, is to recognize the difficulties students educated in a non-English speaking culture might have, and to establish guidelines designed to afford non-citizen 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:

Legal Immigrant
Submit a copy of I-551 or permanent resident card, then meet the same admission requirements as U.S. citizens for the appropriate student type listed above.

Refugee, Asylee, or Parolee
Submit a copy of Immigrant I-94 from USCIS indicating approved status, then meet the same admission requirements as U.S. citizens.

Non-citizens must submit a petition or residency appeal with supporting documentation to be considered for Texas residency. Residency packets may be obtained from the Registrar's Office.

Requirements for students seeking an F-1 or M-1 Visa through the issuance of an I-20

Students seeking admissions as an international student must complete the following:

1. Grayson College Application for Admission.
2. Non-refundable $100 US Application/Evaluation Fee.
3. Provide a current bank statement or bank letter reflecting sufficient funds ($16,500) to cover anticipated tuition/fees and room/board expenses. Additional proof of $3000 is required for each dependent.
4. Transcripts: Official transcripts from high school and/or post-secondary institutions, unless individual approval is utilized. Foreign transcripts must be evaluated by an organization that is a member of NACES. An exception may be made for student-athletes whose course-by-course foreign academic evaluations can be completed through Validential, when coordinated through the College's Athletics and Admissions offices.
5. Health Records Students under 22 years of age must provide evidence they have received the bacterial meningitis vaccination within the past five years.
6. Compliance with all requirements and procedures established for the visa category by the Student Exchange Visitor Program, a department of Homeland Security.
7. Provide proof of English Proficiency from one or more of the following options unless exempt:
    a. Test of English as a Foreign Language (TOEFL) with a minimum score of 500 on paper-based testing or 61 Internet-based IBT;
    b. IELTS 5.0 (with a minimum band score of 4.5);
    c. Pearson PTE Academic Score of 53 or above;
    d. Duolingo Scores of 100 or above;
    e. Accuplacer scores of Reading (90), Sentence Skills (87), and Writing (6);
    f. Passing TSIA 2 scores in both reading (945) and writing (5) administered at a community college in Texas within the last two years;
    g. Completion of an ACCET- or CEA-Accredited Intensive English Program outside the United States;
    h. Completion of the Grayson College Intensive English Language Program; or
    i. Two (2) years in an accredited U.S. high school with passing English scores; orCompletion of Composition 1 (ENGL1301) or equivalent from an accredited US college or university with a grade of a C or better..

Exemptions to English proficiency include the following:

- Students from one of following countries: Anguilla, Antigua/Barbuda, Australia, Bahamas, Barbados, Belize, Bermuda, British Guyana, Canada (except Quebec), Cayman Islands, Dominica, Falkland Islands (Islas Malvinas), Gambia, Grenada, Guam, Guyana, Ireland, Jamaica/other West Indies, Kenya, Liberia, Montserrat, New Zealand, Nigeria, South Africa, St. Helena, St Kitts and Nevis, St. Lucia, St. Vincent, Trinidad and; Tobago, Turks and Caicos, Uganda, United Kingdom, and the Virgin Islands are exempt.
- Students who have earned a baccalaureate degree from a college or university with approved institutional accreditation 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.
- Students may petition for an English Proficiency exemption with valid reasoning through the Assistant Director of Recruiting and Admissions.

Application and documents must be submitted at least 30 days prior to the registration deadline.

Students applying as an F-1 international student must get their application and documents turned in by the deadline in order to be issued an I-20 before the following term date:

- Out-of-country applicants must apply and turn in all documents by June 15 for fall term and November 15 for spring term, or that Friday if the 15th lands on a weekend.
- Transfer students must apply and turn in all documents by July 15 for fall term and December 15 for spring term, or that Friday if the 15th lands on a weekend.

While GC complies with all policies and procedures of the Student Exchange Visitor Information System (SEVIS), the ultimate responsibility that all regulations are met lies with the student.

Admission Requirements for Health Science Students

1. College application: Applicants must be admitted to GC.
2. Program Application: ProgramApplication forms for individual programs must be completed and submitted to a Health Science Admissions Specialist.
3. Testing: Acceptable scores on assessment of basic skills as required by the College and individual program requirements. NLN NEX Exam scores must be submitted for the following programs: Radiology, Nursing, and Surgical Technology.
4. After Acceptance to individual programs, students must submit:
    - Required healthcare provider form and negative tuberculosis test;
    - Current CPR certification at the Red Cross or American Heart BLS Healthcare Provider level (***verify acceptable providers with individual health science programs)****;*
    - Documentation of required immunizations; and
    - 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.

Texas Success Initiative Requirements

Because Grayson College wants students to experience academic success, new students are encouraged to take reading, writing, and mathematics assessments to determine levels of specific course readiness and, if necessary, to place students in courses designed to support students in their first college-level reading, writing and math intensive courses. In accordance with the Texas Success Initiative, students are required to take a state-approved assessment prior to enrollment in reading, writing and mathematics intensive courses, or students can demonstrate course readiness with performance on the ACT, SAT, STAAR, or using multiple measures. Test scores can be sent to admissions@grayson.edu or delivered in-person to a staff member of the Office of Admissions on the Main or South campus. Students may also qualify for an exemption or waiver for certain situations.

Students who are not otherwise exempt must take the TSI Assessment 2.0, 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 2.0 is offered during all normal Testing Center hours. No appointment is necessary, and the Testing Center hours 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 $20 for the whole test or $10 for each part - English language arts with reading (ELAR) and math. Assessment scores are used in the advising process for course selection.

For the purpose of the Texas Success Initiative (TSI), students who have completed the equivalent of a U.S. associate 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 submit an official copy of their college transcript and for foreign transcripts, a course-by-course international credential evaluation from a foreign credential evaluation service recognized as a member of the National Association of Credential Evaluation Services (NACES), such as World Education Services (WES) or Foreign Credential Service of America (FCSA) to the Office of Admissions. The

request for evaluation and any costs associated are the responsibility of the student. Foreign students who have not completed a degree are required to meet TSI requirements before enrolling in courses that lead to an associate degree. Students enrolling in certificate programs must complete, if required, the placement testing for the certificate they are seeking. College readiness is not an admission requirement but could restrict enrollment in certain academic courses.

Test scores needed to demonstrate course readiness in reading, writing and mathematics intensive courses are:

TSI ASSESSMENT 2.0 REQUIREMENTS

Subject	Score
ELAR (English Language Arts with Reading)	945 or higher with essay score 5
	OR
	944 or lower with a remediation diagnostic score of 5-6 and a 5-8 essay score
Mathematics	950
	OR
	949 or lower with a remediation diagnostic score of 6

Exemptions for Certain Students

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

SAT or ACT Test Scores

For a period of five years from the date of testing, a student who is tested and performs at or above the following standards:

ACT (WITHIN 5 YEARS) EXEMPTION REQUIREMENTS (PRIOR TO FEB, 15 2023)

Composite	Math	English
23	19	19

ACT (WITHIN 5 YEARS) EXEMPTION REQUIREMENTS (ON OR AFTER FEB 15 2023)

Math	Combined English and Reading
22	40

SAT (WITHIN 5 YEARS) EXEMPTION REQUIREMENTS

Math	Evidence-Based Reading and Writing
530	480

High School Equivalency Examination

A minimum score of 165 on the GED Mathematical Reasoning subject test shall exempt students for the Mathematics part of the TSI Assessment 2.0 for five years. A minimum score of 165 on the GED Reasoning Through Language Arts subject test shall exempt students for the English Language Arts with Reading (ELAR) part of the TSI Assessment for five years.

State Assessments

STAAR end-of-course (EOC) adopted under Education Code 39.0238 for Algebra II and English III, as that section existed before repeal by H.B. 4545, Acts of the 87th Legislature, Regular Session, 2021, with a minimum Level 2 score of 4000 on the English III shall be exempt from the TSI assessment required under this title for both reading and writing, and a minimum Level 2 score of 4000 on the Algebra II EOC shall be exempt from the TSI assessment required under this title for the mathematics section.

Multiple Measures (from Texas High School performance)

Students must submit an official transcript from a Texas high school with a graduation date posted in order to complete this exemption.

English: Students who are no more than two years post high school graduation and who have an overall GPA of 3.0 or higher and have completed four years of English (see list below) with at least a B in the fourth year.

Eligible courses include: ENG I, ENG II, ENG III, ENG IV, Research/Technical Writing, Creative Writing, Practical Writing Skills, Literary Genres, Humanities, Visual Media Analysis and Production, Business English, Independent Study in English, Legal Research and Writing, AP English Language and Composition, and AP Literature and Composition.

Mathematics: Students who are no more than two years post high school graduation who have an overall GPA of 3.0 or higher who have completed four years of Mathematics with the last year being Pre-Calculus or higher (Calculus 1 or 2) with at least a B in the fourth year.

Exemptions for College-Level Experience

- Associate degree or higher from an accredited institution;
- A student who transfers to an institution from a public, private, or independent institution of higher education or an accredited out-of-state institution of higher education and who has satisfactorily completed college-level coursework as determined by the receiving institution;
- A student who has previously attended any institution and has been determined to have met readiness standards by that institution. For students meeting non-Algebra intensive readiness; standards in mathematics, as defined in 19 Administrative Code 4.59 (relating to determination of readiness to perform entry-level freshman coursework), institutions may choose to require additional preparatory coursework/interventions for algebra intensive courses, including MATH 1314/1324/1414 or their local equivalent;
- College credit hours within the past five years from a private or out-of-state public institution with grades of A, B, or C in approved courses in all three skill areas; or
- A student who is enrolled in a certificate program of one year or less (level-one certificates, 42 or fewer semester credit hours or the equivalent).

Exemptions for College Preparatory Courses

- A student who successfully completes a college preparatory course under Education Code 28.014 is exempt for a period of 24 months from the date of high school graduation with respect to the content area of the course. The student must enroll in the student's first college-level course in the exempted content area in the student's first year of enrollment in an institution of higher education. This exemption applies only at Grayson College with students from the school districts with an active and current Memorandum of Understanding.
- A student who on or after August 1, 1990, was honorably discharged, retired, or released from active duty as a member of the armed forces of the United States or the Texas National Guard or service as a member of a reserve component of the armed forces of the United States.

Waiver for Military Experience

1. A student who is serving on active duty as a member of the armed forces of the United States, the Texas National Guard, or for at least the three-year period preceding enrollment, as a member of a reserve component of the armed forces of the United States (documentation of Statement of Service is required); or
2. A student who on or after August 1, 1990, was honorably discharged, retired, or released from active duty as a member of the armed forces of the United States or the Texas National Guard or service as a member of a reserve component of the armed forces of the United States. Please provide a copy of your DD214 to the Office of Admissions

Waive for Not Credential Seeking

1. Non-degree Seeking students includes visiting, personal enrichment, concurrent high school, early admission, and workforce and career training students.

Academic Success Plan

Attendance

Attendance in developmental lab classes that accompany corequisite courses is required. 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. Failure to do so will result in being barred from future enrollment in academic coursework until the TSI requirements are met in appropriate skill areas (or, under special situations, permission is granted by the appropriate Dean). Students who fail to attend classes by the census date will automatically be dropped as a no-show. If the student was removed from the course due to non-attendance in error, the faculty member must contact the Registrar's Office to request reinstatement in the course by the close of business the business day following being removed from the course.

Note: The fall and spring semester census date is based on Monday through Friday being counted as class days. The summer semester census date is based on Monday through Thursday being counted as class days.

Students who do not meet one of the TSI exemptions or waivers must demonstrate course readiness for reading, writing, and math intensive courses in one of the following ways:

- Passing scores on the reading, writing, and math TSI Assessment 2.0;
- Successful completion of an approved college preparatory class (HB5) in reading, writing and/or math;
- Successful completion of a corequisite course in reading, writing, and/or math; or

- After unsuccessfully attempting the TSIA 2.0, having a cumulative GPA of 3.0 or higher and completing appropriate high school coursework.

Upon meeting the standards in readiness for reading, writing, and mathematics intensive courses, students will not be required to register for corequisite/developmental courses.

Math Pathways:

College-level math courses are designed to serve the curriculum needs of unique degrees; however, many science, technology, engineering, and math (STEM) degrees will require the completion of MATH 1314 - College Algebra. Review the degree plan and/or speak with a Success Coach for more guidance.

Corequisites (Math)

Students who have been placed in a corequisite course will enroll in an appropriate developmental lab course (MATH 0220 for non-STEM pathway or MATH 0240 for STEM pathway) in addition to the college-level course. Attendance is required in both the college-level course and the lab for credit. Upon successful completion of the college-level course, the student will be considered TSI complete in math and may continue without further developmental math courses in that pathway.

Students wishing to retake the TSIA 2.0 may do so at any time; however, it is recommended that students work closely with developmental instructors to determine whether they are prepared to pass the test. Passing the TSIA 2.0 does not excuse the student from the college-level course.

Corequisites (Reading/Writing)

Students who have been placed in a corequisite course will enroll in an appropriate developmental lab course (INRW 0210) in addition to the college-level course. Attendance is required in both the college-level course and the lab for credit. Upon successful completion of the highest college-ready course, the student will be considered TSI complete in reading and writing and may continue without further developmental English courses.

Students wishing to retake the TSIA 2.0 may do so at any time; however, it is recommended that students work closely with developmental instructors to determine whether they are prepared to pass the test.

College Prep Course and Dual Credit Students

High school juniors and seniors who take but do not pass the TSIA 2.0 may enroll in a college preparatory class if their high school has agreed to the terms set forth by the memorandum of understanding provided by Grayson College. TSI exemption may be earned by satisfying the terms of the MOU, though the exemption applies only at Grayson College Students who earn an A, B, or C in an English or math college preparatory class will be considered TSI complete in that subject area for two years.

Advanced Math Placement

The policy below is for students seeking to bypass **MATH 1314 - College Algebra** and enter **MATH 2312 - Precalculus Math**, or bypass **MATH 2312 - Precalculus Math** and enter **MATH 2413 - Calculus I**.

To be eligible for advanced math placement, a student must have a MATH score of 630 or higher on the SAT (81st percentile), and/or a MATH score of 25 or higher on the ACT (81st percentile), and/or a TSIA 2.0 MATH score of 955 or higher.

To bypass MATH 1314 College Algebra and enter MATH 2312 Pre-Calculus Math

- Student takes a departmental exam for MATH 1314 and passes with 70% or better

If the student does not pass the MATH 1314 departmental exam with 70% or better, they will need to do one of the following to be allowed to enter MATH 2312:

- Take the MATH 1314 CLEP exam and pass with the minimum cutoff score.
- Take the MATH 1314 College Algebra course and pass with a C or better.

To bypass Math 2312 Precalculus Math and enter Math 2413 Calculus I

- Student takes a departmental exam for MATH 2312 and passes with 70% or better

If the student does not pass the MATH 2312 departmental exam with 70% or better, they will need to do one of the following to be allowed to enter MATH 2413:

- Take the MATH 2312 CLEP exam and pass with the minimum cutoff score.

- Take the MATH 2312 Precalculus Math course and pass with a C or better.

Instructional Services

Writing Center

Located on the Denison campus in the Liberal Arts building, LA 108 & 110 and on South Campus in SCM 112, Grayson College Writing Center is a quiet, supportive space where students, faculty, and staff can receive assistance with their academic and professional writing. Our goal is for students to connect with our tutors, commit to their growth as writers, and successfully complete their reading/writing intensive courses at Grayson College. To support students in this goal, our trained consultants act as an attentive and responsive audience to provide feedback at any stage of the writing process for any discipline. The Writing Center is also equipped with computers for students to use as they work on their writing assignments, Canvas assignments for their Composition courses or INRW labs, or on their professional writing goals. The Writing Center provides support in the form of online and face-to-face consultations, writing groups, and workshops.

Math Hub

Located on the Denison Campus in the Student Success Center in room SS-200 and on the South Campus in room SCM-112, the Math Hub provides students with assistance with any level of math instruction. It's a great place for students to work on homework and to prepare for tests that involve math.

The Math Hub offers a suitably quiet space for students to work on homework or lab work and have questions answered by qualified staff upon request, with the goal of leading students to do their own work. The Math Hub is also equipped with computers for students to use for their math classes, whether it be checking Canvas for an assignment, working on online homework, completing a project for a math class, or watching a math video. Both professional and Peer tutors are available on a walk-in basis. Information about hours and tutors is available on the website.

Science Hub

The Science Hub provides students with assistance with any level of science instruction and is a great place for students to work on homework and to prepare for tests that involve science. Located on the Denison campus in the Science building in room S-203, the Science Hub is also equipped with models for students to use as they work on their assignments, in their Canvas platform, or achieve science proficiency goals. Science Peer Tutors' schedules and areas of expertise are posted in the Science Hub and in Upswing.

Advising

Grayson College strongly encourages all students, regardless of academic skill level, to seek individual success coaching prior to scheduling classes in the Student Planner. The Advising Office is open daily Monday through Friday to assist students with questions about course transfer, degree planning, transcript evaluation, College catalogs and other facets of college life.

Students who are eligible for veteran educational benefits should consult with the Veterans Services Office.

The following students are required to receive academic advising:

- Degree-seeking students who are entering GC for the first time. New students should contact the Advising Office for degree requirements and planning;
- Students required to meet TSI requirements and who have not met assessment requirements;
- Students who are required to be enrolled in corequisite courses;
- Students who are on academic probation and/or students who are on financial aid suspension; or
- Students who desire to change an academic major, update their degree audit, or transfer to another institution.

Success Coaches and Faculty Mentors are assigned to all students based on major. Success Coaches assist students with 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 career assistance should seek assistance from the Career and Transfer Center located in the Student Affairs Building on the Denison campus.

College Orientation and MyMajors Career Assessment

Grayson College Orientation is required for all first-time-in-college (FTIC), transfer, and former dual credit students prior to registration. The purpose of orientation is to provide a comprehensive overview of available campus services, resources, and opportunities designed to help students succeed. It provides information regarding student support services and helps students become familiar with college lingo, tutoring, college policies/procedures, payment and financial aid options, and advising. Orientation is offered on campus and online. The online orientation can be accessed in MyViking.

After Orientation, students are directed to complete the online MyMajors Career Assessment. The career assessment is a thirty-question assessment to give students insight into potential academic pathways and career options. It is also located in MyViking.

Academic Fresh Start

Under Texas state law, Academic Fresh Start (AFS) allows students who are residents of Texas to have academic credits that meet certain criteria to be waived. To meet the criteria for AFS, credit must be earned 5 or more years prior to the starting date of the semester in which they plan to enroll in classes at Grayson College. The Academic Fresh Start Application and any supporting documents must be submitted to the Registrar's Office at Grayson College before the term begins. In order for the AFS to be approved and claimed, the student must enroll in classes. Once enrollment is complete and after the census date of that term, the AFS will be updated to the student record and will reflect any academic credits moving forward.

The AFS waiver can only be claimed one time at Grayson College and cannot be reversed once applied. A student will forfeit the use of all credits earned prior to enrollment under the Academic Fresh Start Policy. This is an all or nothing option; students cannot choose which courses to waive and which ones to count. Under this provision, the course work can no longer be used to fulfill prerequisite requirements, count towards a new degree, will not count towards degree readiness and will not be counted in new GPA calculations. The courses on the transcript are not altered or removed; they are relocated and displayed under the Fresh Start GPA grouping so they are no longer calculated in the Academic GPA.

Academic Fresh Start is included in Satisfactory Academic Performance (SAP) for financial aid purposes. All courses on the student's transcript, with the exception of CED, will be considered in the calculations for Satisfactory Academic Progress (SAP) components for federal financial aid eligibility, including those waived for Academic Fresh Start.

To request Academic Fresh Start a student must:

- Be fully admitted, without conditions, at Grayson College;
- Be enrolled or seeking enrollment at Grayson College;
- Complete the Academic Fresh Start application;
- Submit all documents for the Academic Fresh Start to registrar@grayson.edu before the term begins to be considered.

Testing Service

The Testing Center provides testing services to meet a wide range of needs. The Testing Center assesses students' basic skills for successfully completing academic programs through the administration of the Texas Success Initiative (TSI) Assessment 2.0. 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, and by providing proctoring services for other colleges/universities/agencies. The Testing Center assists GC programs by administering admissions/certification exams such as the NEX 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 Tutoring and Accessibility Services. 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 (NCTA) and follows the NCTA standards and guidelines.

Dual Credit Enrollment

The Dual Credit program at Grayson College allows high school students to earn high school and college credits simultaneously. Through Dual Credit MOU agreements, the College and the participating high schools in Grayson and Fannin Counties have selected courses that meet both high school and college learning objectives. Depending on the school district, these classes are offered online, at local high schools, the South Campus in Van Alstyne, and on the main Grayson College campus.

Academic Dual Credit

Academic Dual Credit allows high school students to earn college credit that is transferable to a college or university. Dual Credit students who are pursuing courses within a degree plan must demonstrate college readiness in accordance with state requirements.

Non-Degree Seeking students are exempt from Texas Success Initiative(TSI) requirements at the time of enrollment. Non-degree seeking students may enroll in a maximum of 15 credits before they are required to demonstrate college readiness through prior college-level coursework or testing. Approved testing includes: ACT, SAT and TSIA 2.0.

Students may demonstrate college readiness by submitting qualifying scores on the ACT, SAT, or TSIA.

Career & Technical Dual Credit (CTE)

Through Career & Technical Education (CTE) dual credit programs, students may earn Occupational Skills Awards (OSA), Level I & 2 Workforce Certificates. These programs are available to dual credit students and provide opportunities for students to earn industry-based credentials while still in high school.

CTE courses are TSI exempt and do not require testing.

To enroll in Academic or CTE Dual Credit courses, students must:

- Attend a high school with a current MOU agreement
- Receive approval to enroll from their high school
- Complete the application for dual credit admissions
- Submit satisfactory college-readiness test scores (if applicable)
- Submit a course request to their high school counselor
- Pay tuition and fees by the published deadline for each semester

Students may also be required to purchase course textbooks and materials.

Interested students should contact their high school counselors, attend a GC Dual Credit Parent Night, or contact the Director of Academic and CTE Dual Credit. Students must meet eligibility requirements set by their high school to ensure that they receive high school credit for courses.

Returning Dual Credit students must maintain a cumulative GPA of 2.0 or higher to remain eligible to participate in the dual credit program.

Dual Credit Score Requirements

TSIA 2.0

- TSIA 2.0 Assessment standards: English Language Arts & Reading of 945 M/C and 5 Essay;
    - or less than 945 M/C and Diagnostic Score Level 5, and Essay 5
- Math 950
    - or less than 950 and Diagnostic Level 6

ACT

- Combined score of 40 on the English and Reading (E+R)
- Math score of 22
- No Composite Score

SAT

- 480 on Evidence-Based Reading and Writing (EBRW)
- 530 on Mathematics
- No Composite Score

Dual Credit Course Load

A typical course load is 6 credit hours per long (Fall/Spring) semester. Enrollment of more than six hours requires approval from both the high school counselor and the Vice President of Instruction.

With prior approval, students may take up to 15 credit hours per semester. This load is considered advanced and is recommended only after completing at least one semester of dual credit.

Graduation Requirements

Students may apply for graduation using any certificate or degree plan in the catalog for the year they first enrolled at Grayson College or any subsequent catalog provided:

- It is dated no more than five years prior to the graduation date.
- The student is enrolled within the term of the eligible degree audit, provided the catalog is still in effect, the current catalog, or a subsequent catalog in effect during enrollment as long as the program of study is still offered.
- Enrollment must have occurred during that year and earned college credit for coursework completed.

Graduation

Graduation signifies the completion of an educational credential. Students are encouraged to meet with their Success Coach or Faculty Mentor prior to entering their final semester of completing an award to ensure that they are on track for completion. Once determined that they are eligible for graduation, students should connect with the Completion Coordinator to complete the application for graduation to ensure student information (address, full name, email, major, etc.) is up to date. It is the responsibility of the student to know the application deadline as published on the College website and in the Academic Calendar.

Commencement is the academic celebration of the student's completion of their program requirements. Applying for graduation does not automatically include the student in the commencement ceremony nor does it guarantee eligibility of completion.

All students who are approved for graduation are invited to attend the commencement ceremony. To participate in the ceremony, students must RSVP, which is included in the graduation application. Ceremony details can be found on the Graduation webpage.

Note: Although a "D" is acceptable as passing for most courses at Grayson College, including transfer credits, if the program requires a "C" or higher, the student must meet the requirements of that program to be eligible to earn the credential associated with that award. For example, but not limited to, STEM and Health Science programs. Additionally, if there is a Capstone requirement of a "C" or higher within the award, the student must meet that requirement for completion.

Deferral

In order to postpone graduation, the student must complete a deferral form in the Registrar's Office at the beginning of the semester of eligibility to graduate. Failure to complete this form will result in the degree being automatically awarded.

Graduation Requirements

To graduate with honors in an associate's and/or a bachelor's degree program students must meet the following requirements:

- Have an overall grade-point average of 3.7 or better based on Grayson College hours only;
- To graduate Cum Laude, have a GPA of 3.70 – 3.84;
- To graduate Magna Cum Laude, have a GPA of 3.85 – 3.99; and
- To graduate Summa Cum Laude, have a GPA of 4.00.

To graduate with honors in a certificate program, a student must make a grade of A for all required courses in the certificate program.

To graduate from Grayson College with a bachelor's degree, students must:

- Complete the equivalent of 120 credit hours required for the bachelor degree
- Have an overall Grayson College grade point average of 2.00; and
- Have earned at least 25% of the total required degree plan hours at Grayson College.

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

- Complete the 60 credit hours or more as required for the respective associate degree;
- Have an overall Grayson College grade point average of 2.00; and
- Have earned at least 25% of the total required degree plan hours at Grayson College

To graduate from Grayson College with a certificate, students must:

- Complete all credit hours as required for the respective certificate;
- Have a 2.0 grade point average in the the courses in the certificate program; and
- Have earned at least 25% of the total required degree plan hours at Grayson College.

Health Science Students: In addition to the above degree requirements, all Health Science students must earn a grade of "C" or better in each major course on their degree plan and complete any program capstone requirement.

To graduate with honors in an associate degree, students must meet the following requirements:

- Have an overall grade-point average of 3.7 or better based on Grayson College hours only;
- To graduate Cum Laude, have a GPA of 3.70 – 3.84;
- To graduate Magna Cum Laude, have a GPA of 3.85 – 3.99; and
- To graduate Summa Cum Laude, have a GPA of 4.00

Honor Regalia

Members of Grayson College honor societies may wear honor stoles at commencement, and members of student organizations may wear pre-approved honor cords for each organization to which they belong. Any other regalia must be approved by the Registrar or Vice President of Student Services. Students participating in the Health Sciences Pinning Ceremony must get approval from the Health Sciences Associate Dean for any other regalia that is not affiliated with Grayson College student organizations or honor regalia designated by the Registrar's Office.

Automatic Graduation

Graduation is an automated process at Grayson College. This helps streamline the process for students and ensures that transcripts reflect the credentials earned by the student’s earned degree or certificate. Each semester a review of degree audits is completed by the Completion Coordinator within the Registrar’s Office to determine those students who are eligible for graduation. Diplomas are ordered for students who are eligible to earn an award and the award has been verified/posted to the student record. Any requests after the initial diploma has been ordered will be at the expense of the student.

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 grade of "D" or better has been earned may be transferred to Grayson College from a college or university with approved institutional accreditation.

Approved Institutional Accrediting Bodies:

- Middle States Commission on Higher Education (MSCHE)
- Northwest Commission on Colleges and Universities (NWCCU)
- Higher Learning Commission (HLC)
- New England Commission of Higher Education (NWCCU)
- Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)
- Accrediting Commission of Community and Junior Colleges Western Association of Schools and Colleges (ACCJC)
- WASC Senior College and University Commission (WSCUC)

Credit submitted for transfer will be posted to the student's transcript under the transfer credit portion of the transcript. 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. Courses transferred into Grayson College will be included in the student's financial aid satisfactory academic progress (SAP) quantitative calculation. Transfer credits are transcripted with a “T” followed by the grade earned from the transferring institution as follows: “TA”, “TB”, “TC”, “TD”.

Note: While Grayson College may accept courses for transfer credit, such acceptance does not guarantee that other institutions will recognize or apply those courses in the same manner. Furthermore, receiving institutions may impose additional restrictions, including the non-acceptance of grades below a “C.” Students are strongly encouraged to consult with their intended transfer institution to confirm transferability and applicability of coursework.

Transcript Evaluation Policies

Purpose

To provide a systemic evaluation method for transfer credit of academic courses completed at other accredited institutions of higher education.

Policy

Courses presented for transfer credit are analyzed in terms of level, content, quality, comparability, and degree program relevance as set forth by the Southern Association of Colleges and Schools Commission on Colleges.

Requesting Transcript Evaluation

Individuals requesting to have courses evaluated for transfer credit must submit official transcripts to the Office of Admissions for processing. A student must be enrolled past census date and seeking a degree or academic award in order for transfer credit to be applied to the education record. The Registrar’s Office will only transcribe the transfer credits upon receipt of official transcripts. Students will be informed of their transfer credit evaluation through their Viking student email approximately six to eight weeks after the census date of the first enrolled term of admission (without conditions) to the College.

Evaluation of Transfer Credit

All freshman and sophomore level academic courses with one or more semester credit hours earned will be transferred and recorded on the student’s transcript. Unsuccessful grades, developmental coursework, and WECM courses that do not meet course substitution requirements are not eligible for transfer.

Credit for courses equivalent to those listed in the GC catalog will be given for credit earned at an accredited institution of higher education. Courses noted as meeting core requirements at a Texas public institution will be evaluated and transferred in as satisfying the specific core component.

Official course descriptions and/or syllabi may be needed to determine the transferability of credit toward equivalent coursework. Students may be requested to provide additional course information to aid in credit evaluation

After review of a course description, if determination is not able to be made by the Registrar's Office, a course description will be sent to the appropriate Department Chair or Program Director for review. The Department Chair or Program Director will make a recommendation on an equivalent course or if the course would be a general elective. If further information is needed, it is the student's responsibility to obtain a copy of the course syllabus for Grayson College faculty to review. Final approval or rejection is determined by the appropriate instructional dean.

Conversion from Quarter Hours to Credit Hours

Coursework completed under a quarter-hour system does not have the same number of contact hours as semester credit hours and needs to be converted. A quarter hour represents about two-thirds of a semester credit hour. To convert quarter hours to semester hours, multiply the quarter hours by two and divide by three. For example:
5 quarter hours × 2 = 10
$10 / 3$ = 3.33 semester hours
To convert semester hours to quarter hours, multiply the semester hours by three and divide by two. For example:
3 semester hours × 3 = 9
$9 / 2$ = 4.5 quarter hours

Credit from Institutions without Approved Accreditation

Credits from unaccredited institutions will not be transferred or applied to any degree requirements. Students must submit a written request with required supporting documentation to have coursework evaluated from institutions not accredited by a recognized institutional accrediting agency. Students with credit from institutions without approved accreditation should submit official transcripts with course descriptions, learning outcomes, and faculty credentials to the Registrar's Office within 30 days of the request. This documentation will be sent to the instructional divisions for evaluation and recommendation of credit based on the level, content, quality, comparability and degree program relevance.

Acceptable Grades

All courses completed with a "D" or better on an official transcript will be considered as part of the academic history subject to transfer credit evaluation. Although grades of "D" may satisfy an award completion, grades of "D" may not meet degree requirements based on departmental requirements. For example, the Health Science programs and other programs that require grades of "C" or better.

Elective Credit

Credit for all non-equivalent courses, which includes coursework not listed in the core curriculum or general education requirements, will be awarded up to 18 hours of general elective credits to apply toward degree completion.

Veteran Students and Military Credit

Veteran students will be required to submit a Transfer Evaluation Request form to the Veteran Services Office (VSO) upon initial request for benefits at Grayson College. The Transfer Evaluation Request form can be found on the GC Veteran Services webpage or in the Veteran Services Office on the Main campus. Students' transcripts may be evaluated administratively for veteran services purposes without a written request.

- Credit by Evaluation of Military Service: Credit will be evaluated for military courses and/or experiences based upon the evaluation recommendations as outlined in the American Council on Education (ACE) Guide to the Evaluation of Educational Experiences in the Armed Services manual. Documentation including a joint services transcript (JST) and DD214 should be submitted to the Office of Admissions.
- PE courses may be waived for military service or medical reasons. Required documentation includes the student's DD214 indicating six months of active duty or a written statement from a physician.

Graduation Eligibility

To be eligible for graduation, at least 25% of the semester credit hours in any degree or certificate must be earned at GC.

Credit for Foreign Courses

Students requesting credit for foreign coursework must first complete admission to Grayson College and then enroll in courses. To receive transfer credit from foreign institutions, students must submit an official copy of the transcript from the institution and a course-by-course international credential evaluation from a foreign credential evaluation service recognized as a member of the National Association of Credential Evaluation Services (NACES), such as World Education Services (WES) or Foreign Credential Service of America (FCSA) to the Office of Admissions. The request for evaluation and any costs associated are the responsibility of the student.

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 to acquire these materials promptly. GC does not accept foreign coursework for courses in English and Speech.

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 regionally accredited public institution recognized by the U.S. Department of 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 per Board rules and/or guidelines which may require the student to provide supporting documentation such as course descriptions, detailed course syllabi, and instructor credentials from the time of enrollment.
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 Texas 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, junior or senior according to the amount of college credit they have completed. A freshman is one who has completed less than 30 semester credit hours of college credit; a sophomore is one who has completed at least 30 but less than 60 semester credit hours of college credit; a junior is one who has completed at least 60 but less than 90 semester credit hours of college credit; and a senior is one who has completed at least 90 semester credit hours of college credit. A student who is not a bachelor degree seeking student at Grayson College will remain classified as a sophomore student when semester credit hours exceed 60 college credits.

Student Load

Academic Load

Students who are enrolled for 12 or more semester hours are considered full-time students.

Long Semester

The normal load for the fall or spring semester is 12 semester hours. Credit hours taken during a first 8-week term and a second 8-week term are added to classes taken during the long semester and mini session to determine academic loads. Students who wish to enroll in 19 or more credit hours must obtain the permission of either the Director of Success Coaches, the appropriate Dean, the appropriate Vice President, or the Registrar.

Summer Session

The normal load during each 4-week term of the summer session is 4 semester hours. The maximum load for a 4-week term is 4 semester hours. Students may not earn in excess of 9 semester hours during the two terms in the summer session, including summer evening sessions.

Mini Sessions

Students can enroll in one course (up to 4 credit hours) for the 4-week mini session in fall and one course (up to 3 credit hours) for the 3-week mini session in spring.

Mid Term Session:

The maximum course load per 8-week term is nine semester hours. Credit hours taken during the first 8-week term and second 8-week term are added to classes taken during the long session to determine academic loads. Students who wish to enroll in 19 or more credit hours must obtain the permission of either the Director of Success Coaches, the appropriate Dean, the appropriate Vice President, or the Registrar.

Course Load (ECC Local):

The normal course load for the fall or spring semester shall be 15 semester hours. The maximum course load per 8-week term is nine semester hours. Course loads in excess of nine semester hours per term or 19 semester hours for the semester shall require approval by the Director of Success Coaches, the appropriate dean, or the Vice President of Instruction.

The normal course load for the summer session shall be four semester hours for each 4-week term or 9 semester hours for a full summer semester. Course loads in excess of 4 semester hours per 4-week term or 9 semester hours for the summer semester shall require approval by the Director of Success Coaches, the appropriate Dean, or the Vice President of Instruction.

The normal course load for a 3-week mini session is three hours. Course load in excess of three semester hours per session shall require approval by the Director of Success Coaches, the appropriate dean, or the Vice President of Instruction.

The normal course load for the 4-week mini session is 4 semester hours. Course loads in excess of 4 semester hours per session shall require approval by the Director of Success Coaches, the appropriate dean, or the Vice President of Instruction.

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 Registrar's Office on or before the official census date published in the Academic Calendar. After the official census date, a student's audit status may not be changed. Students auditing courses will receive grades of AU (Audit) and will be posted to the student record after census for that term.

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 sessions, summer sessions, and 8-week terms 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 co-requisite courses should attend both the developmental lab course and the college-level course regularly for successful completion and to meet TSI requirements.

In online courses, a student shall be considered present and/or having attended if they have completed one of the following:

- Posts to a class discussion
- Submits a written assignment or project via file upload
- Takes a quiz or an exam
- Submits work through a third party software such as Pearson or McGraw Hill, and the grade is transferred to the LMS Gradebook; or
- Initiates contact with a faculty member via email to ask a question about the academic subject studied in the course. Email correspondence alone does not constitute attendance; meaningful correspondence measured for attendance will be determined by the professor in concert with the Department Chair and/or appropriate Dean.

Students who are receiving Federal Title IV financial aid may have their aid adjusted if they fail to begin attendance as outlined above. This may result in a balance due to the College.

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 of Instruction.

"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 semester. During periods of open registration, students may drop one or more classes using the Student Planner. After the deadline for schedule changes passes, all drops must be handled by the student contacting each professor or program director via Viking email for the course(s) they wish to drop. No drop requests will be accepted directly from the student. Drops will not be accepted after the drop deadline for the semester. Students may not drop courses at Grayson College over the phone. If a student wishes to drop all of their courses, they should initiate a complete withdrawal from the College through their Success Coach.

Limitation on Number of Dropped Courses

(ONLY affects drops occurring after census date)

Under section 51.907 of the Texas Education Code, “an institution of higher education may not permit a student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education.”

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. For the limit to apply:

1. The student must be permitted to drop the course without receiving a grade or being penalized academically;
2. The student’s transcript must indicate or will indicate the student was enrolled in the course; and
3. The student must not have dropped the course to withdraw from the College District.

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. The student’s showing of:
    a. A severe illness or other debilitating condition that affects the student’s ability to satisfactorily complete a course;
    b. The care of a sick, injured, or needy person if providing that care affects the student's ability to satisfactorily complete a course;
    c. The death of a member of the student’s family as defined by law;
    d. The death of a person who has a sufficiently close relationship to the student as defined by law is either considered to be a member of the student’s family or is otherwise considered to have a sufficiently close relationship to the student, as defined below, that the person’s death is considered to be a showing of good cause;
    e. The student’s active military duty service;
    f. The active duty military service as a member of the Texas National Guard or the Armed Forces of the United States of either the student or a person who is considered to be a member of the student’s family or a person who is otherwise considered to have a sufficiently close relationship to the student, as described below; or
    g. 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; or
2. A disaster declared by the governor that prevents or limits in-person course attendance by students at the institution of a duration determined by the institution.

It is the responsibility of the student to establish that good cause before the drop. Students with questions should contact their Success Coach in the Advising Office or the Registrar's Office for more information before dropping a course.

For purposes of this exception, a “member of the student’s family” is defined to be the student’s spouse, child, grandchild, father, mother, brother, sister, grandmother, grandfather, aunt, uncle, nephew, niece, first cousin, stepparent, stepchild, or stepsibling.

A “person who is otherwise considered to have a sufficiently close relationship to the student” is defined to include any other relative within the third degree of consanguinity, plus close friends, including but not limited to roommates, housemates, classmates, or other persons identified by the student for approval by the institution, on a case-by-case basis.

Exception for Re-enrolled Students

A qualifying re-enrolled student may drop a seventh course in accordance with law.

Exception for COVID-19 Pandemic

A course dropped by a student during the 2020 spring or summer semester of the 2020–2021 academic year because of a bar or limit on in-person course attendance due to the COVID-19 pandemic may not be counted toward the limit on the number of dropped courses.

Withdrawing from College

A complete withdrawal indicates a student is no longer enrolled in any courses at the College for the semester. During periods of registration, students who enroll online using the Student Planner may also withdraw from school via the same method. Students wishing to withdraw from all courses must first contact one of the following: their professor, Program Director or Success Coach via MyViking email or Canvas Inbox.

Students who withdraw prior to the semester's drop deadline will receive a grade of W. The Registrar's Office only accepts withdrawal date deadline appeals when there are medical or circumstantial reasons to consider.

Merely discontinuing class attendance does not constitute a complete withdrawal from the College. Students who do not officially withdraw will be given a grade of F for the course.

Change of Schedule

During periods of registration, students may change their schedules via the Student Planner. Students cannot change their schedule online through the Student Planner 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 Academic Calendar. Schedule changes can be made up to the first day of a 3-week or 4-week term, the first two days of an 8-week term, and the first four days of a 16-week term. After the schedule change deadline, students must contact each professor or Program Director via email for the course(s) they wish to drop. After the census date of each term, students initiate drops by contacting their instructor via Viking email or Canvas Inbox. 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:

- CLEP
- Advanced Placement Exam
- Departmental Exam
- International Baccalaureate
- Clock Hour Conversion
- Tech Prep/Articulated Credit
- Military Training/Joint Service Transcript (JST)
- Dantes
- Professional Certification
- Credit for Prior Learning
- Prior Learning A

Students seeking a credit award for tests other than those listed above should check with the Registrar's Office. A student may not receive credit award for credit courses in which the student has enrolled at GC or any other accredited institution recognized by the U.S. Department of Education. Up to 75% of a degree or certificate program credit hours may be awarded 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. Credit award will count toward hours needed for graduation at GC, however, other institutions are not obligated to accept the credit awarded at Grayson College. A student intending to transfer to another institution should check with that institution about transferability of credits awarded under 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 the credit hours awarded under credit award towards the 12-hour enrollment requirement according to the Department of Homeland Security.

Military Service Course Credit

Grayson College may award to an undergraduate student who is admitted to the institution, including a student who is readmitted under Education Code 51.9242, course credit for all physical education courses required by the institution for an undergraduate degree and for additional semester credit hours, not to exceed 12, that may be applied to satisfy any elective course requirements for the student's degree program for courses outside the student's major or minor if the student graduated from a public or private high school accredited by a generally recognized accrediting

organization or from a high school operated by the U.S. Department of Defense and is an honorably discharged former member of the Armed Forces of the United States who completed at least two years of service in the Armed Forces or was discharged because of a disability.

Military Training Course Credit Award

Veteran students must provide GC with a copy of their Joint Service Transcript (JST) or Community College of the Air Force (CCAF) transcript. GC will evaluate each military training transcript for course equivalency on a course-by-course basis. An academically qualified faculty/staff member will conduct all course equivalency evaluations. Upon the transcript evaluations, all eligible courses are added to the GC transcript. Transcribed courses may not exceed 75% of the total credit required in the declared degree program. 25% of the credit in the declared degree program must be earned by taking courses at Grayson College.

A grade of P is given for the courses earned through military credit award. No grade points are associated with the grade of P. Military award credit may count towards 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 in a regular academic credit class through the Continuing Education (CE) department. No formal College admission process is required. Students receive no academic credit for these mirror courses. However, academic credit may be sought under the following conditions:

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

A grade of P for pass/fail will be given on the student’s transcript for satisfactorily completing the course. This course will not be calculated in the student's GPA.

No more than 12 credit hours of mirror coursework may be converted to credit. In special situations, permission to complete more than 12 hours of mirror coursework may be granted by the Vice President of Instruction.

AP Credit Award

AP Credit Award Requirements - Grayson College

AP Test	Minimum Score Requirement	Course(s) credited
Art History	3	ARTS 1303
Art History	4 or higher	ARTS 1303 & 1304
Biology	3	BIOL 1306/1106
Biology	4 or higher	BIOL 1306/1106 and BIOL 1307/1107
Calculus AB	3	MATH 2413
Calculus BC	3	MATH 2413 & 2414
Chemistry	3	CHEM 1311/1111
Chemistry	4 or higher	CHEM 1311/1111 and CHEM 1312/1112
Computer Science A	3	COSC 1336
Computer Science A	4 or 5	COSC 1336 & 1337
Economics (Macro)	3	ECON 2301
Economics (Micro)	3	ECON 2302
English Literature and Composition	3	ENGL 1301
English Literature and Composition	4 or higher	ENGL 1301 & 1302
English Language and Composition	3	ENGL 1301
English Language and Composition	4 or higher	ENGL 1301 & 1302
Environmental Science	3	GEOL 1305 & 1105
European History	3	HIST 2311
European History	4 or higher	HIST 2311 & 2312
Human Geography	3	GEOG 1302
Precalculus	3	MATH 2312
Physics 1	3	PHYS 1301 & 1101
Physics 2	3	PHYS 1302 & 1102
Physics B (Historical)	3	PHYS 1301/1101
Physics B (Historical)	4 or higher	PHYS 1301/1101 & PHYS 1302/1102
Physics C	3	PHYS 1325/1125
Physics C	4 or higher	PHYS 1325/1125 & PHYS 132/1125
Psychology	3 or higher	PSYC 2301
Spanish Language and Culture	3	SPAN 1411
Spanish Language and Culture	4	SPAN 1411 & 1412
Spanish Language and Culture	5	SPAN 1411, 1412, & 2311
Spanish Literature and Culture	3	SPAN 2311
Spanish Literature and Culture	4	SPAN 2311 & 2312
Spanish Literature and Culture	5	SPAN 2311, 2312, & 2321
Statistics	3 or higher	MATH 1342
Studio Art (Drawing Portfolio)	3 or higher	ARTS 1316
U.S. Government & Politics	3	GOVT 2305
US History	3	HIST 1301
US History	4 or higher	HIST 1301 & 1302
World History	3	HIST 2321
World History	4 or higher	HIST 2321 & 2322

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. CLEP scores will not be considered for a course previously completed

RN to BSN Credit Award

Students seeking to transfer credit awarded by other institutions toward entry into the RN to BSN program must meet Grayson College's credit award requirements. Credit award is accomplished on a course-by-course basis. At least 25% of the credit hours required for an undergraduate degree must be earned through instruction offered by Grayson College. A maximum of 32 credit hours may be earned through credit award. A grade of P will be given for the courses earned through credit award. No grade points are associated with the grade of P.

Students seeking credit award should bring a copy of their RN license and official transcript(s) or other test scores to the Health Science Department or the Registrar's Office, and complete and sign the Credit Award Application. No fee will be charged for any credit award transactions.

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

Studies in Language and Literature

IB Examination	Score	GC Course	Credit Hours
English (SL) Language A1 or A2	4, 5, 6, or 7	ENGL 1301 or 1302	6
English (HL) Language A1 or A2	4, 5, 6, or 7	ENGL 1301 or 1302	6
French A1 or A2 (SL)	4, 5, 6, or 7	LANG 1411 & 1412	8
French A1 or A2 (HL)	4, 5, 6, or 7	LANG 1411, 1412, 2311, & 2312	14
German A1 or A2 (SL)	4, 5, 6, or 7	LANG 1411 & 1412	8
German A1 or A2 (HL)	4, 5, 6, or 7	LANG 1411, 1412, 2311, & 2312	14
Portuguese A1 or A2 (SL)	4, 5, 6, or 7	LANG 1411 & 1412	8
Portuguese A1 or A2 (HL)	4, 5, 6, or 7	LANG 1411, 1412, 2311, & 2312	14
Russian A1 or A2 (SL)	4, 5, 6, or 7	LANG 1411 & 1412	8
Russian A1 or A2 (HL)	4, 5, 6, or 7	LANG 1411, 1412, 2311, & 2312	14
Spanish A1 or A2 (SL)	4, 5, 6, or 7	SPAN 1411 & 1412	8
Spanish A1 or A2 (HL)	4, 5, 6, or 7	SPAN 1411, 1412, 2311, & 2312	14

Language Acquisition - Modern

IB Examination	Score	GC Course	Credit Hours
French B (SL)	4, 5, 6, or 7	LANG 1411 & 1412	8
French B (HL)	4, 5, 6, or 7	LANG 1411, 1412, 2311, & 2312	14
French AB Initio	4, 5, 6, or 7	LANG 1411	4
German B (SL)	4, 5, 6, or 7	LANG 1411 & 1412	8
German B (HL)	4, 5, 6, or 7	LANG 1411, 1412, 2311, & 2312	14
German AB Initio	4, 5, 6, or 7	LANG 1411	4
Portuguese B (SL)	4, 5, 6, or 7	LANG 1411 & 1412	8
Portuguese B (HL)	4, 5, 6, or 7	LANG 1411, 1412, 2311, & 2312	14
Portuguese AB Initio	4, 5, 6, or 7	LANG 1411	4

IB Examination	Score	GC Course	Credit Hours
Russian B (SL)	4, 5, 6, or 7	LANG 1411 & 1412	8
Russian B (HL)	4, 5, 6, or 7	LANG 1411, 1412, 2311, & 2312	14
Russian AB Initio	4, 5, 6, or 7	LANG 1411	4
Spanish B (SL)	4, 5, 6, or 7	SPAN 1411 & 1412	8
Spanish B (HL)	4, 5, 6, or 7	SPAN 1411, 1412, 2311, & 2312	14
Spanish AB Initio	4, 5, 6, or 7	SPAN 1411	4

Language Acquisition - Classical

IB Examination	Score	GC Course	Credit Hours
Greek Classical	4, 5, 6, or 7	LANG 1411	8
Latin (SL)	4, 5, 6, or 7	LANG 1411 & 1412	8
Latin (HL)	4, 5, 6, or 7	LANG 1411, 1412, 2311, & 2312	14

Individuals and Societies

IB Examination	Score	GC Course	Credit Hours
Business & Management	4, 5, 6, or 7	BUSI 1301	3
Economics (SL)	4, 5, 6, or 7	ECON 2301 & 2302	6
Economics (HL)	4, 5, 6, or 7	ECON 2301 & 2302	6
Geography	4, 5, 6, or 7	GEOG 2312	3
History of the Americas (HL)	4, 5, 6, or 7	HIST 1301 or 1302	6
Philosophy	4, 5, 6, or 7	PHIL 1301	3
Psychology	4, 5, 6, or 7	PSYC 2301	3
Social & Cultural Anthropology	4, 5, 6, or 7	ANTH 2351	3

Sciences

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
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
Physics (SL)	4, 5, 6, or 7	PHYS 1401	4
Physics (HL)	4, 5, 6, or 7	PHYS 1401 & 1402	8

Mathematics (HL)

IB Examination	Score	GC Course	Credit Hours
Mathematics (HL)	4, 5, 6, or 7	MATH 1314 & 1316	6
Mathematics with Further Maths (HL)	4, 5, 6, or 7	MATH 1314, 1316, & 2342	9
Mathematical Methods (HL)	4, 5, 6, or 7	MATH 2513	5
Mathematical Studies (HL)	4, 5, 6, or 7	MATH 1425	4

The Arts

IB Examination	Score	GC Course	Credit Hours
Music	4, 5, 6, or 7	MUSI 1306 & 1311	6
Theatre	4, 5, 6, or 7	DRAM 1310	3
Visual Arts	4, 5, 6, or 7	ARTS 1301	3

Grading and Academic Standing

Grade Reports and Transcripts

Final grades are available to students through the Student Planner. A transcript of college work is an official copy of the student's permanent record listing all coursework at the College and bearing the signature of the Registrar. More information on requesting transcripts can be found under the Self Service transcript heading under Registration. 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)

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

GC 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 course 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 no later than the end of the next long semester, but may be set for a shorter length of time by the faculty member as recorded on the Incomplete Form. Failure to remove an I during the succeeding long semester may result in an F being placed on the permanent record.

W — Withdrew. Dropped after the census date.

P — Passing.

S — Satisfactory. Used for non-degree courses.

U — Unsatisfactory. Used for non-degree courses.

AU — Noncredit. Used for audited courses.

T_ — Transfer credit. Not calculated into Grayson College's cumulative GPA, but is calculated into Satsifactory Academic Progress (SAP). May include TA, TB, TC, TD.

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
F = 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, AU, and F in pass/fail courses are excluded from GPA calculation.

Grades earned in developmental courses are also excluded from GPA calculation

Repeated Course Policy

Effective the 2020-2021 academic year, Grayson College allows the repeat of courses with the highest grade considered as the official grade. Only the highest grade will be calculated in the Cumulative GPA, although all attempts will be listed on the transcript. See specific health science special admissions packets for details on grade calculation.

Academic 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 Warning: A student will be placed on Academic Warning when the cumulative GPA falls below 2.00 for one long semester.

Academic Probation: When a student's cumulative GPA remains below a 2.0 for more than one long semester, the student will be placed on Academic Probation. Students on probation will be required to meet with their Success Coach to establish an individualized success plan. Students on Academic Probation are not eligible to hold office in student clubs/organizations.

PLEASE NOTE: Financial Aid Satisfactory Academic Progress is a separate policy and may affect financial aid eligibility (please reference the Financial Aid Satisfactory Academic Progress (SAP) Policy for further details).

President's and Dean's Lists

The GC President's and Dean's lists are awarded at the end of the fall and spring semesters 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. This academic status is not printed on the Grayson College transcript but is available on the Grayson College webpage.

Registration

Registration dates and times are available online via the College website. 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.

Registrar's Office

The Registrar's Office assists current and former students. Students can contact the Registrar's Office for graduation, enrollment verifications, audit forms, credit awards, residency appeals, record updates, Academic Fresh Start applications, Request to Audit a Class forms, transfer evaluations and transcripts.

Verification of Enrollment

Students may contact the Registrar's Office in order to request verification of enrollment. Grayson College has partnered with the National Student Clearinghouse to provide enrollment 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 studentclearinghouse.org.

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 studentclearinghouse.org.

Self-Service Transcript Requests

Students may print unofficial transcripts from the Student Planner and may request an official transcript, free of charge, by visiting the Registrar's Office and presenting a valid photo ID. Transcripts may not be released if there is a hold on the student record.

Official transcripts must be requested through the College's authorized transcript service provider, Parchment. Current and former students may submit transcript requests online through the College's website. Processing times may vary depending on the request type and delivery method. A service fee will apply. Transcript requests cannot be processed if the student has an active hold that prevents the release of official records. Some record holds can prevent the release of an official transcript.

Dual Associate Degrees

Dual Associate degrees allow students to combine two different degree programs. Students completing a dual degree program are awarded two distinct degrees. You may not earn two degrees at the same level (e.g. Associate degree level) using the same credit.

If two associate degrees are granted, the primary major is considered the first degree with a minimum of 60 credits (some majors require more credits). The second or any subsequent degree requires (15 to 18) additional credits, which must be uniquely applicable to the second associate degree curriculum. Before enrolling in coursework toward a second associate degree, you must request an official evaluation. Consult with your Success Coach for more information on earning a second associate degree.

Student Services and Activities

Instructional Support Services

Instructional support is provided on both the Main and South campuses to students and community members. Testing services include the TSI Assessment 2.0 (TSIA 2) as well as make-up and distance education tests. Testing services vary by campus. Call 903.463.8724 for Main Campus or call 903.415.2509 for South Campus to check availability of services at each location. Testing schedules are available on the College website

Other instructional support is provided through the Math Hub, Writing Center, and Science Hub. Additional services include accessibility services, tutoring programs, learning strategy referrals, workshops, seminars, and additional course materials. Students with documented disabilities should contact the Coordinator of Tutoring and Accessibility Services by calling 903.463.8771, or emailing accessibility@grayson.edu. who then assists students in accessing approved accommodations. The Coordinator will meet with students, review documentation, and assist students in accessing approved accommodations. The AIM accommodation request is linked in MyViking.

Tutoring Program

Grayson College offers free peer tutoring services to students enrolled in regular college credit programs. Peer tutors are trained and supervised by professional staff. Use the Upswing link in MyViking to schedule tutoring sessions. For more information, call 903.463.8771 or email tutoring@grayson.edu.

GC also provides free tutoring online through Upswing (grayson.upswing.io), which provides quick and convenient access to expert tutors in most college subjects. A link to this resource and user instructions can be found in each Canvas course shell and MyViking.

TRIO Student Support Services

TRIO Student Support Services (SSS) is a federally funded program that offers special support services to increase the chances of successful academic progress and graduation from college. TRIO SSS provides eligible GC students assistance such as mentoring, academic advising, tutoring, transfer assistance, career assessments, financial and economic literacy, and individualized student coaching. Active students are also eligible to utilize free printing for classes, to participate in trips to area universities, as well as participating in academic enrichment trips and activities.

Who is eligible for TRIO Student Support Services?

To be considered for membership in TRIO SSS, students are required to be U.S. citizens or permanent residents, have an academic need, and also meet at least one of the following categories:

- First-Generation College Student (neither parent/guardian has a bachelor's degree);
- Low Income (based on Federal Income Guidelines); or
- Student with a documented disability.

How to Apply to TRIO SSS

TRIO SSS is funded to serve 140 students per year. Interested students may complete the online application via the College website, visiting the TRIO SSS office, calling 903.415.2597, or contacting us by email at sss@grayson.edu for assistance. Applicants will be contacted within seven days of applying. If the program is full at the time of application, applicants will be put on a waiting list.

Office Location and Hours

The TRIO SSS Office is next to the Advising Office in the Student Affairs Building on the Main Campus. Please contact the TRIO SSS Office for available hours at the South Campus.

Athletics

Grayson College provides a varied athletic program for all its students. Athletics at the intercollegiate level at GC include baseball, softball, men's and women's basketball, and cheerleading. The program is administered by the Athletic Director with administrative review. The College is a member of the National Junior College Athletic Association and the Northern Texas Junior College Athletic Conference (NJCAA).

The intercollegiate athletic program at GC advocates the personal growth and education of students through their participation in a comprehensive program of NJCAA, Division I sports. As an integral part of the College, the intercollegiate athletic program actively promotes gender equality and diversity and provides community enrichment.

If you feel that you have the ability to compete at the intercollegiate level and would like to express your interest in the sports programs, please make those interests known to the Athletic Director.

Facilities

The Fitness Center includes a variety of athletic equipment, dressing rooms, and showers.

Success Coaching and Advising

Success Coaches are available to help students in achieve success by providing students with career planning and placement, as well as assisting with academic concerns.

College Connections COLL 0271

College Connections is designed to help students make successful transitions from a previous level of education, or experience (e.g., the military), into college life, from undeclared status into a major, and careers. The course will cover basic academic skills and provide information about available campus resources. Students will be encouraged to develop more definite career plans and a plan to fit their educational goals. Students will also have a connection with their Success Coach and Faculty during the most critical weeks of their college career. This course includes developing an academic plan in the Student Planner and using the Student Planner to enroll in courses.

All First-Time-In-College (FTIC) students will be required to take a College Connections course during their first semester. This does not apply to dual credit students. The course will be available (but not required) for any other Grayson College student who wishes to enroll. If a FTIC student takes and fails the course, they will be required to retake the course before or concurrent with their next semester enrollment. This course is an institutional requirement.

Students accepted for enrollment in the following programs are exempt from being required to take the College Connections course:

- Associate Degree Nursing
- Licensed Vocational Nursing
- Cosmetology
- Police Academy

Career Planning and Placement

Grayson College offers students the opportunity to engage in career assessments and computerized career guidance programs in our Career and Transfer Center to 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 and Transfer Center provides opportunities for students to learn job search skills, such as resume and cover letter writing and how to interview for a job.

Academic/Career and Technical Advising

Faculty Mentors, Success Coaches, a Career and Pathway Coach, a University Transfer Coach, and a Career Services Specialist are available to assist students in reaching their goals through developing and following sound academic or vocational plans.

Retention Services and Activities

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

Behavioral Intervention Team

Grayson College is committed to student success and maintaining a safe campus environment for students, faculty, and staff. The purpose of the Behavioral Intervention Team (BIT) is to provide timely intervention for students who may display early warning signs of concerning, disruptive, and/or violent behavior towards self and/or others.

The BIT reviews and assesses each referral to determine the appropriate level of response and support needed to assist the student of concern. All BIT referrals are submitted and processed through the Grayson Cares Referral system.

Grayson Cares

Grayson Cares is a comprehensive support program that assists students in need, by providing personal counseling, food assistance, financial emergency aid, basic needs, community resources and other essential services. Housed within the Department of Counseling and Social Services, Grayson Cares connects students with licensed professionals and support staff who work collaboratively with them to identify and utilize resources that help remove barriers to academic success.

Reasons why a student may want to seek social services through Grayson Cares:

- Food support (Vic's Market Grab & Go Counter and Food Pantry)
- Personal or mental health support (In-person or Teletherapy)
- Financial Emergency Aid support (childcare, medical, transportation, utility, rent, etc.)
- Childcare support (emergency aid, Perkins Grant)
- Transportation support (gas voucher, Perkins Grant)
- Housing support (emergency aid, shelter, resources)
- Basic needs support (hygiene, clothing, aid resources)
- Community resources support (medical, financial, housing, non-profits)

Students seek Grayson Cares support when basic needs or personal challenges interfere with their ability to stay enrolled and be successful in school.

To Connect with Grayson Cares:

Visit grayson.edu/grayson-cares to schedule an appointment, or to submit a Grayson Cares Referral. You may also stop by in-person, or call the Department of Counseling and Social Services at 903.463.8730 to schedule an appointment or complete service applications. Grayson Cares is located on the second floor of the Life Center on the Denison Campus

Personal Counseling

Personal counseling services support students when personal concerns impact their college experience. Services are available by appointment and on a walk-in basis for urgent needs. Counseling is provided on a short-term basis; when longer-term care is needed, students are referred to appropriate community resources.

Students also have access to Uwill, a virtual care platform offering:

- Free, confidential teletherapy with licensed counselors
- 24/7 crisis support
- Wellness programs and self-care tools
- Flexible scheduling options

Students can access Uwill through their MyViking and can log into Uwill using their Viking email address. Students may access Personal Counseling by visiting grayson.edu/grayson-cares to schedule an appointment, submitting a Grayson Cares Referral, visiting in person, or calling the Department of Counseling and Social Services at 903.463.8730. The office is located on the second floor of the Life Center on the Denison Campus. Personal Counseling services are also available to South Campus students by appointment.

For Emergencies: If you or someone you know need urgent or immediate assistance, please contact 911, 988, or GC Campus Police 903.463.8777.

Veteran Services

GC provides a Veteran Services Office (VSO) to assist the enrollment of veterans, war orphans, war widows, and totally disabled veterans, their spouses, and children. The VSO also assists active-duty military, National Nuard and reservists. This office serves as a liaison between Grayson College and the Veterans Administration and is located in the Student Affairs Building within the Office of Financial Aid. Please contact the Veteran Benefits Advisor or check the website for information concerning the required documents.

All students are strongly encouraged to visit the VSO as part of their college experience.

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 Honors Scholarship for honors students is awarded at the end of the spring semester for the following academic year to continuing GC students who apply using the form on the College's homepage.

Honors Credit

Honors credit may be earned through an Independent Honors Contract agreement with individual professors. Students may take any class as an Honors class (with instructor permission). Honors agreements and contracts must be approved by the Honors College coordinator.

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 website.

To provide access to many electronic databases, ebooks, films, librarian chat, internet and other resources, 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. Software loaded on these computers includes Microsoft Office and Google Chrome. The library also participates in TexShare, and is a member of AMIGOS, which provides OCLC access. The Library provides access to research and information literacy help from Librarians through email, phone, chat, zoom and our LMS product. There are study rooms available for individuals or groups. The Library provides a print cafe for student access to printing. The Library also coordinates access to laptops for student use.

Circulating books are checked out for two weeks. DVDs are available for circulation and are checked out for a two-week period. The library is “open stack” and students are encouraged to browse.

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.

Grayson College Police Department

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. Grayson College Police Department (GCPD) is located in the Alumni Grove area on the College’s Denison campus. Students living in the residence halls and employees who use the employee parking lots 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 Police Office is a service oriented organization and offers non-traditional law enforcement services. For a complete description of services offered, contact GCPD at 903.814.3343. In an emergency, always call 911.

Air Force Reserve Officer Training Corps

Grayson College students have the opportunity to participate in the Air Force Reserve Officer Training Corps (ROTC) Program as crosstown students at the University of North Texas in Denton, Texas. Students are required to attend an academic class, leadership laboratory, and physical training at the University of North Texas once a week during the fall and spring semesters.

The ROTC mission is to develop quality leaders to serve our country as officers in the United States Air Force. As a part of the program, students will prepare themselves to become an Air Force officer while completing a degree as a college student. Students may participate in the four-year or three-year program. Students enroll in ROTC classes at the same time and in the same manner as other Grayson College courses. Students register and pay via Grayson College in accordance with published payment deadlines. For more information, contact afrotc.unt.edu or det835@unt.edu.

Aerospace Studies

AERO 1030 - USAF Heritage and Values

1 hour (1;1;1)

This course provides an introduction to the Air Force. It allows students to examine general aspects of the Department of the Air Force, Leadership, benefits, and opportunities for Air Force officers. The course also lays the foundation for becoming an Airman by outlining our heritage and values. The students will be introduced to the Air Force way of life and gain knowledge on what it means to be an Airman. Prerequisite(s): None.

AERO 1040 - USAF Heritage and Values

1 hour (1;1;1)

As a foundational course, it provides a historical perspective such as lessons on war and US military, AF operations, principles of war, and airpower. As a whole, this course provides students with a knowledge-level understanding for the employment of air and space power. The students will be introduced to the Air Force way of life and gain knowledge on what it means to be an Airman. Prerequisite(s): None.

AERO 2030 - Team and Leadership Fundamentals

1 hour (1;1;1)

This is a 1-hour survey course designed to provide a fundamental understanding of both leadership and team building. It is imperative that students are taught from the beginning that there are many layers to leadership, including aspects that don't always jump to mind. Such things include listening, understanding themselves, being a good follower and problem solving efficiently. The students will apply these leadership perspectives when completing team building activities and discussing things like conflict management. Students should demonstrate basic verbal and written communication skills.

Prerequisite(s): None.

AERO 2040 - Team and Leadership Fundamentals

1 hour (1;1;1)

This is a 1-hour survey course designed to provide a fundamental understanding of both leadership and team building. It is imperative that students are taught from the beginning that there are many layers to leadership, including aspects that don't always jump to mind. Such things include listening, understanding themselves, being a good follower and problem solving efficiently. The students will apply these leadership perspectives when completing team building activities and discussing things like conflict management. Students should demonstrate basic verbal and written communication skills.

Prerequisite(s): None.

AERO 2920 - Cooperative Education in Aerospace Studies

1–3 hours

Supervised work in a job or project directly related to the student's major, professional field of study or career objective.

Prerequisite(s): Students must meet the employer's requirements and have the consent of the department chair.

May be repeated for credit.

Recruiting

College Recruiters, located in the Office of Admissions in the Student Affairs building, are available to provide information and admissions support to prospective students about the College and its programs and services. Recruiters provide campus tours for individuals and groups. Prospective students can request information by emailing admissions@grayson.edu or calling 903.465.8604.

Student Life and Development

Student Life and Development enhances the college experience by providing programs, activities, and services that support personal growth, leadership, and community engagement. Through involvement, students develop a strong sense of identity, build meaningful relationships, and gain skills that contribute to their personal and professional success. The office fosters a welcoming environment where students can explore their interests, strengthen their values, and make a positive impact on their communities.

The Student Life and Development Office is located on the second floor of the Life Center on the Denison campus.

Eligibility for Activities and Organizations

Athletics

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 North Texas Junior College Athletic Association (NJCAA). Any student who has been enrolled during five or more semesters in the College may lose eligibility in any College-sponsored activity.

Student Organizations

1. Membership is available to all GC students without discrimination on the basis of race, color, religion, sex, age, national origin, disability or veteran status. Student organizations, such as honor societies and academic organizations, may impose membership standards based on acceptance to an academic program, course completion requirement, minimum credit hours or GPA.
2. Membership in a registered student organization is open to all currently enrolled GC students, this includes students in credit and non-credit programs. Students serving as organization officers must be enrolled in a minimum of six credit hours and have a cumulative GPA of 2.0.
3. Students on academic probation may not hold an officer position in an organization. Students may remain active with the organization while working towards improving their academic standing.
4. Students on disciplinary probation by Grayson College may not hold office or travel with a student organization. A student may return to active status once the above actions have been lifted (typically after one long semester after the probation semester).

Student Rights and Responsibilities

Our Viking Values: balance, trust, clarity, teamwork, service, and gratitude, are not just words. They are a way of life at GC. All students are encouraged to contribute towards creating a respectful, positive, and thriving college community.

GC actively upholds non-discrimination policies in accordance with Title IX and Title VI Civil Right Acts that prohibit discrimination based on protected characteristics including, but not limited to, sex, pregnancy, race, national origin, religion, or disability, in any aspect of college life and programming,

As a member of the GC community, each student is expected to have reviewed the GC Student Handbook and abide by the GC Student Code of Conduct. Upholding these standards promotes a safe, respectful, and positive college experience and community. Violations of the GC Student Code of Conduct will result in disciplinary action, which may include written warning, probation placement, suspension, expulsion, community service, student development, loss of leadership privileges, restrictions, and/or referral to law enforcement.

Hazing

The College strictly prohibits hazing, which is any intentional, knowing, or reckless action directed at a student, either individually or with others, that jeopardizes the student's mental or physical health or safety for the purpose of initiation, affiliation, or maintaining membership in any student organization. Hazing by students or student organizations, as defined by law, is prohibited even if the person being hazed consents to the hazing. An organization commits an offense if the organization condones or encourages hazing or if an officer or any combination of members, pledges, or alumni of the organization commits or assists in the commission of hazing. Education Code 37.153(a), 51.936(a)

Please refer to the Board Policies & Procedures Manual (https://pol.tasb.org/PolicyOnline?key=523) and to the Grayson College Student Handbook (grayson.edu/current-students/catalogs-and-handbooks/) for detailed policies and procedures. for further explanation of students' rights and responsibilities.

Student Organizations

Student Government Association

The Grayson College Student Government Association (SGA) is responsible for governing student interests, advocating for student concerns, and serving students by hosting activities and events throughout the year. The Director of Student Life and Development serves as the advisor.

Anime Club

The purpose of GC Anime Club is to provide an environment where students may enjoy watching anime with others, discuss the concepts and origins of anime, manga, and related topics, and make friends with similar interests.

Art Club

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.

Baptist Student Ministry

The Baptist Student Ministry (BSM) exists to provide a fellowship for students interested in developing and strengthening their religious life. Participation is open to all students on campus.

Black Print

The purpose of Black Print is to bring individuals together to help improve the lives of African Americans and give them opportunities to let their voices be heard. While the focus of Black Print is the voice of African American students, ALL students regardless of race/ethnicity are welcomed to join. Black Print's goals are to create connections, build relations, expand skills, and explore different elements of college life while making lifelong friends and connections.

Cosmetology Shears Club

The purpose of Shears is to build relationships between students. The club also provides educational opportunities for 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, and Viticulture and Enology programs at Grayson College. The club will develop community awareness of the Culinary Arts and Hospitality Management and Viticulture and Enology programs as well as participate in food shows, local charity events and fundraising for both students and 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 Association 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 Program.

Electrical Technology Club

The Electrical Technology 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.

Esports

Esports at Grayson College offers students the opportunity to compete in organized intercollegiate gaming while developing skills in teamwork, communication, and strategic thinking. Through participation in Viking Esports, students engage in competitive play, community building, and personal growth within a supportive environment.

Eta Sigma Delta

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 for athletes and coaches interested in developing their religious life. FCA is open to all students on campus.

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.

Gamers's Guild

The Gamer's Guild is a community of gamers and role-players fostered on the appreciation for tabletop roleplaying games.

Viking Pride Alliance

The purpose of the Viking Pride 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 to 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 Ag Club

The purpose of the Ag Club is to gather students at Grayson College who are interested in all parts of Agriculture. This includes Animals/Livestock, Horticulture, Crop Science, Gardening, Wildlife management, Insects, Ag business/ economics/marketing, etc. Areas of emphasis are education and networking surrounding Agriculture careers, opportunities and internships, outreach to local school districts on Ag-related topics such as farming, insects, gardening, plant ID, etc., joining Collegiate FFA and participating in contests, learning and practicing public speaking, communication, resume writing, interviewing, and leadership skills.

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 Jewish Student Association

The Grayson College Jewish Student Association (GC-JSA) promotes education and awareness of Jewish culture, heritage, and history. It serves as a welcoming community for Jewish students and their friends, providing a supportive space for connection and learning, regardless of their level of observance. The GC-JSA is also open to non-Jews who wish to be allies.

Grayson College Music Club

The purpose of the Grayson College Music Club is to promote the Music Department by spreading music throughout the community and 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 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.

Hispanic American Leadership Organization (HALO) Club

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 leaderships 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 Grayson County through the use of lectures, outings, and other events.

Medical Lab Technician (MLT) 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

Men of Distinction is designed to recruit and retain all Grayson College gentlemen with the intent of 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.

Multicultural Club

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

Nurses Christian Fellowship

On campus, nursing students come together to study the Bible, explore how to follow Jesus in life and nursing, and offer the love of Jesus to their classmates and faculty. Mission is to encourage, equip and empower Christian student nurses at Grayson College to: grow in faith within the context of nursing school, integrate faith within nursing through Bible study and spiritual care resources, share their faith with other nursing students and faculty. Students meet for spiritual care, praise and worship and devotions monthly or bimonthly.

Pep Band

The GC Viking Pep Band is open to students of all majors at Grayson College, faculty, staff, and community members. Its primary function is to support the Viking Basketball teams by performing at home games, as well as other Grayson College events. The Pep Band's repertoire includes a variety of classic and modern pop music.

Paramedic Student Association

The purpose of the organization is to promote interest in the field of Emergency Medical Services (EMS), 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 Club

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

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

Sigma Kappa Delta (SKD) is a 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. 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 GPA in 12 or more hours of college-level courses 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 who uplift and encourage one another. The club strives to promote a sense of emotional support with confidence. The focus is to build a healthy heart, mind, and body. Members form lasting relationships with other women and learn to work tighter in a good study environment. This is a support group for women.

Presidential Student Ambassador

Service as a Presidential Student Ambassadors provides students an opportunity to represent the College on campus and in the community. Through participation, students receive leadership mentoring from the College President and campus leaders. Presidential Student Ambassadors are a group of diverse students who connect through outreach and engagement to prospective students and the community from a student perspective.

Student Veteran 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 Association

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

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.

Associate of Arts (AA)

Credential	Hours Required
Fine Arts	60
Liberal Arts/General Studies	60
Music	60
Theatre	60

Associate of Science (AS)

Credential	Hours Required
Agricultural Sciences	60
Athletic Training	60
Biological and Physical Sciences	60
Business Administration	60
Computer Science/Computer Information Systems	60
Criminal Justice	60
Engineering	60
General Studies	60
Kinesiology	60
Mathematics	60
Pre-Health Science	60

Associate of Arts in Teaching (AAT)

Credential	Hours Required
8-12 Certification; EC-12 Other than Special Education	60
4-8 Certification; EC-12 Special Education Certification	60
EC-6 Certification	60
Education Aide II Certificate	15

Associate of Applied Science (AAS) and Certificates of Completion

Field	Credential	Hours Required
Accounting	Accounting Associate Degree	60
	Accounting Certificate	30
	Accounting Occupational Skills Award	9
Advanced Manufacturing	Advanced Manufacturing Technology Associate Degree	60
	Advanced Manufacturing Level 1 Machining Certificate	24
	Advanced Manufacturing Technician Certificate	42
	Basic Manufacturing Technician Certificate	24
	Mechatronics Technician Certificate	25
Agribusiness	Agribusiness Management	60
	Ag Technology	45
	Ag Entrepreneur	30

Field	Credential	Hours Required
	Agribusiness	30
	Small Scale Farmer	15
Business	Business and Management Associate Degree	60
	Business Foundation Certificate	15
	Business and Management Level II Certificate	45
	Bookkeeping Certificate	15
Child Development	Child Development Associate Degree	60
	Child Development Certificate	30
	Child Development Child Care Administrator Certificate	27
	Child Development Occupational Skills Award	9
	Child Development Associate Training Occupational Skills Award	9
Cloud Computing	Cloud Computing Associate Degree	60
	Cloud Computing Technician Level II Certificate	36
	Cloud Support Occupational Skills Award	12
Computer Maintenance and Networking	Computer Maintenance and Networking Technology Associate Degree	60
	Computer Network Administrator Certificate	30
	Computer Support Technician Certificate	18
	Computer Maintenance and Networking Support Occupational Skills Award	12
Police Academy	Police Academy Certificate	23
Culinary Arts	Culinary Arts Associate Degree	60
	Basic Culinary Arts Chef Training Certificate	25
	Culinary Arts Certificate	39
	Culinary Arts Basic Chef Training Occupational Skills Award	12
	Enhanced Pastry Arts Enhanced Skills Award	12
Cybersecurity	Cybersecurity Administration Associate Degree	60
	Cybersecurity Technician Certificate	36
	Cybersecurity Support Occupational Skills Award	12
Dental Assisting	Dental Assisting Associate Degree	60
	Dental Assisting Certificate	35
Distillation	Distillation Sciences Associate Degree	60
	Distillation Science Certificate	18
	Cider and Brandy Production Occupational Skills Award	9
Early Childhood Education	Early Childhood Education Associate Degree	60
Electrical Engineering	Electrical Engineering Technology Associate Degree	60
	Electrical Engineering Technology Electronics Certificate	23
	Electrical Engineering Technology Automation Certificate	27
	Electrical Engineering Technology Occupational Skills Award	12
Electrical Technology	Electrical Technology Associate Degree	60
	Commercial Electrical Technology Certificate	45
	Residential Electrical Technology Certificate	27
EMS	Paramedic Associate Degree	60

Field	Credential	Hours Required
	EMT to Paramedicine Level II Certificate	38
	Emergency Medical Technician Basic Occupational Skills Award	12
HART	Heating, Air Conditioning and Refrigeration Technology Associate Degree	60
	Heating, Air Conditioning and Refrigeration Technician Apprenticeship	28
	Heating, Air Conditioning and Refrigeration Technician Certificate	36
Hospitality Management	Hospitality Management Associate Degree	60
	Hospitality Management Certificate	37
	Hospitality Management Occupational Skills Award	12
Medical Laboratory Technology	Medical Laboratory Technician Associate Degree	60
Nursing	Nursing Associate Degree	60
	Licensed Vocational Nursing to Registered Nursing Entry Associate Degree	60
	Vocational Nursing Level II Certificate	42
Administrative Professional	Administrative Professional	60
	Administrative Professional Certificate	36
	Medical Office Management and Coding Specialist	36
	Administrative Professional Occupational Skills Award	9
Surgical Technology	Surgical Technology Associate Degree	60
Radiography	Radiologic Technology Associate Degree	64
	Computed Tomography Advanced Technology Certificate	16
Viticulture and Enology	Viticulture and Enology	60
	Enology Certificate	17
	Viticulture Certificate	17
	Viticulture and Enology Occupational Skills Award	12
Welding	Welding Associate Degree	60
	Structural Welder Certificate	16
	Combination Welder Certificate	35
	Combination Welder Small Business Management Certificate	50
	Orbital Welder Certificate	448
	Pipefitting Certificate	384

Certifications

Field	Degrees	Hours Required
Cosmetology	Cosmetology Certificate	33
	Cosmetology Nail Technician	16
	Esthetician and Skin Care Specialist Certificate	22
	Cosmetology to Barber Certificate	16
	Class A Barber	37
Audio Engineering	Small Business Audio Engineering	26
	Audio Engineering Occupational Skills Award	14
	Educational Aide II Certificate	15

Bachelor of Science

Credential	Hours Required
Nursing (RN to BSN Program)	120

Fields of Study

Field
Business Administration
Communication
Civil Engineering
Criminal Justice/Law Enforcement Administration
Electrical Engineering
History
Mechanical Engineering
Music
Psychology
Social Work
Sociology

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. Distance Learning students use their personal computers and/or on-campus computer labs for course content, discussions, exams, and communication with instructors and classmates. Students enrolled fully-online may visit the campus for conferences with the instructor, and/or to take exams. Instructors are available for telephone and personal conferences and may also be contacted via email.

Fully Distance Education Courses online - A course which may have mandatory face-to-face sessions totaling no more than 15% of the instructional time. Examples of face-to-face sessions include orientation, laboratory, exam review, or an in-person test.

Hybrid/Blended Course - A course in which a majority (more than 50% but less than 85%) of the planned instruction occurs when the students and instructors are not in the same place.

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.

Visit the College website for the latest schedule of fully-online and hybrid courses. Fully-online courses will include *NT* or similar designation in the section number. Hybrid courses will contain *HY* or similar designation in the section number.

Exam Proctoring, Third Party Fees

Some courses may require the use of exam-proctoring, either on-campus or involving third-party vendors, which may incur additional charges payable at the time the service is scheduled or provided. Students may be required to schedule exams at least one week in advance or incur late scheduling charges. All costs for exams are the responsibility of the student. Students may also be responsible for providing webcams to be used in test proctoring.

Grayson College enforces Viking Values expectations. Violation of the academic dishonesty procedures could result in forfeiture of the test, and the course instructor will be notified of the incident.

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

Texas Statewide Course Sharing Exchange

Texas course sharing allows Grayson College students to take online courses at other participating Texas colleges and universities to meet degree requirements, even if the course isn't offered at their home institution. This initiative helps increase access, flexibility, and resource efficiency for students. Currently enrolled GC students can register for courses at the Texas Statewide Course Sharing Exchange (https://coursesharing.highered.texas.gov/)

Academic Advising

For help with individual learning plans, course selection, prerequisites, transfer credits, and more, call 903-463-8695. More information on advising can be found on the Advising Website. (https://www.grayson.edu/gettingstarted/advising/index.html)

College Orientation and MyMajors Career Assessment

Grayson College Orientation is required for all first-time-in-college (FTIC), transfer, and former dual credit students prior to registration. The purpose of orientation is to provide a comprehensive overview of available campus services, resources, and opportunities designed to help students succeed. It provides information regarding student support services and helps students become familiar with college lingo, tutoring, college policies/procedures, payment, financial aid options, and advising. Orientation is offered online and can be accessed in MyViking.

After Orientation, students are directed to complete the online MyMajors Career Assessment. The career assessment is a thirty-question assessment to give students insight into potential academic pathways and career options. It is also located in MyViking.

Career Planning and Placement

Grayson College offers students the opportunity to engage in career assessments and computerized career guidance programs in our Career and Transfer Center to 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 and Transfer Center provides opportunities for students to learn job search skills, such as resume and cover letter writing, and how to interview for a job.

Bookstore

Purchase your materials at the College Bookstore. (https://grayson.bncollege.com)

Counseling

Assistance is available in the areas of time management, test anxiety, study skills, or personal problems interfering with your academic progress. For an appointment, call 903-463-8694.

Financial Aid and Veteran Services

Grants, student loans, and/or exemptions, vouchers, and scholarships are available to assist eligible students with college expenses. Call 903.463.8794, email financialaid@grayson.edu, or visit the Financial Aid Webpage. (grayson.edu/financialaid)

For assistance with veteran education benefits and certification, please call 903.415.2615, email veterans@grayson.edu, or visit the Veteran Services Webpage. (grayson.edu/financialaid/veterans-services-office/)

HelpDesk

Grayson College provides technical assistance related to Canvas, My Viking, username and password issues. To request assistance, submit a ticket at help.grayson.edu or call 903.415.2591.

Library

The Grayson College Library (grayson.edu/library) provides online access to a variety of databases that can be accessed off-campus.

Canvas Assistance

For technical assistance, submit a ticket at help.grayson.edu or call 903-415-2591.

Tutoring

Tutors are trained to assist students as they wprepare for tests and learn new concepts. Tutors encourage use of proven study techniques and answer questions about assignments. Tutoring services are available online and in-person on both campuses. Use the Upswing tutoring link in the MyViking dashboard to schedule tutoring sessions. For more information, call 903.463.8775 or email tutoring@grayson.edu.

Grayson College Graduate Guarantee

Transfer Guarantee

Grayson College guarantees that courses taken at the College, selected from an official academic degree plan, will transfer to any selected public-supported college or university in Texas. 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 select an official academic degree plan with the Advising Office.

The College will make this guarantee for all presently enrolled students after an authorized Success Coach or Instructional Dean reviews an up-to-date transcript and develops an official degree plan.

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.

Dispute Resolution

If two institutions have a dispute over the applicability of a course within the Texas Transfer Framework, they should try to work through the difference to come to a resolution that will increase the likelihood of students' success in subsequent courses and in their majors. If no resolution is possible, the dispute will be elevated to the Commissioner for a final determination.

Employment Guarantee

If an Associate of Applied Science (AAS) 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 under the conditions of the guarantee policy. Special conditions which apply to the guarantee include the following:

- The student must earn his/her degree/certificate in an occupational program listed in the Grayson College catalog of 1993 spring semester or later.
- The graduate must have completed the AAS 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.
- 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.
- 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.
- The employer, graduate, instructional dean, and appropriate faculty member will develop a written educational plan for retraining.
- 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.
- 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 including the residence halls. Individuals may access the wireless network by using a wireless device supporting either the 802.11G, N, or AC Standards.

Articulated Credit

Articulated Technical Credit is an initiative 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. An articulated technical career pathway is a six-year plan of courses, beginning with grade nine

in the secondary school and continuing through the two-year Associate of Applied Science degree program in the community college. Articulated Credits 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 Articulated Credits Associate of Applied Science degree programs in cooperation with area independent school districts. Articulated Credits currently implemented include Accounting, Business & Management, Child Development, Culinary Arts, Computer Maintenance, Advanced Manufacturing, Electrical Engineering Technology, Computer Software & Systems Technology, Criminal Justice, Office & Computer Technology, and Welding Technology.

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

1. Pick a career path from one of the high school endorsements while in high school.
2. Enroll and succeed in high school courses that are articulated for Grayson College credit.

Criteria for the award of articulated credit through a high school Articulated Credit program:

- Students must meet criteria specified in the articulation agreement.
- College credit for articulated courses(s) will be posted with a grade of “P” to the student’s college transcript after completion of the first semester at Grayson College.

Articulated Credit must be finalized no later than two years after high school graduation. Contact the Office of Admissions and Records with any questions or to learn more about earning articulated credit.

Academic and Workforce Instruction

Academic Instruction is made up of the following guided career pathways: Arts and Humanities, Business and Entrepreneurship, Industrial Technologies, Public Services, and Science, Technology, Engineering and Math (STEM). Each Associate’s degree offered in this division contains a 42-hour core in general education.

Courses offered in Academic Instruction 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.

Courses offered in Workforce Instruction will provide basic instruction and adequate comprehensive pre-employment training for students preparing for positions in the industry that require high degrees of skill and technical knowledge. Each Associate of Applied Science (AAS) degree offered in this division contains at a minimum a 15-hour core in general education. Workforce Instruction also provides several Career Ready programs that lead to employment in high-demand occupations.

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 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.

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 Success Coach on campus.

Academic & Workforce Instruction objectives 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.

Health Science

The philosophy and purpose of the Health Sciences Division reflect not only those of the College, but also focus on the specific areas of knowledge required for Athletic Training, Kinesiology, Associate Degree Nursing, Vocational Nursing, Dental Assisting, Medical Laboratory Technology, Emergency Medical Services, Radiologic Technology, and Surgical Technology. Through specifically designed curricula, students become eligible 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 or eligible to continue on a pathway to an advanced certificate or degree.

The RN to BSN program is aligned with the mission and philosophy of Grayson College. Student success is the focus of the college and the program. The program is designed for the Registered Nurse who already has an Associate

Degree and wishes to complete a Bachelor of Science in Nursing. The curriculum is designed for the working nurse to allow the nursing courses to be completed in a hybrid format. The degree plan consists of general education courses along with upper-division nursing courses for a total of 120 credit hours.

Center for Workplace Learning

The Center for Workplace Learning (CWL) (grayson.edu/CWL) represents all non-credit and continuing education activities at Grayson College. The purpose is to deliver customer-centered, community-connected and quality-driven workplace learning solutions to provide the Texoma region with a globally competitive workforce. Noncredit programs create opportunities and benefit Texan learners to pursue their educational and career goals, thereby advancing Texas' economic priorities, workforce strategies, and credential attainment.

The CWL strives to promote partnerships between education, industry, and government to deliver world-class education and training opportunities throughout the Texoma region. Customized training classes for business and industry as well as scheduled lifelong learning courses for youth and seniors are offered year-round through the CWL.

Visit the CWL Webpage (grayson.edu/CWL) for more information about the courses and programs offered through the Center for Workplace Learning.

Grayson College offers credentials to successful completers in the following CWL workforce training programs as follows:

Institutional Course Leading to Credential (ICLC) Award

Degrees	Hours Required
Mental Health Technician	30
Pharmacy Technician	88
EKG Technician	64

Occupational Skills Award (OSA)

Degrees	Hours Required
Certified Nurses Aide	144
Certified Phlebotomy Technician	144
Certified Clinical Medical Assistant	288
Patient Care Technician	160
Programmable Logic Control Tech	192
Automation Tech 1	240
Automation Tech 2	288
Electronics Technician 1	288
Electronics Technician 2	256
Professional Truck Driving	200

Level 1 Non-Credit Certificate

Degrees	Hours Required
Industrial Maintenance Technician	480

Adult Education and Literacy

Grayson College is the fiscal agent for an adult education program provided through a partnership with the Texas Workforce Commission. Funded by federal and state grants, these free classes are offered in a variety of locations in the following 3 counties –Grayson, Fannin and Cooke. Both day and evening classes are available for students age eighteen and older. Students ages 16 and 17 can also be served with additional requirements. The classes meet throughout the calendar year, including the summer months.

Highly qualified and caring teachers assist students in achieving their educational and/or employment goals. By utilizing a student-centered approach to learning, 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;
- High School Equivalency preparatory classes (GED);
- English as a Second Language (ESL) with citizenship content classes for all levels of adult learners;
- Basic to advanced instruction in reading, math, and language;
- Basic computer skills, including accessing the internet;

- Counseling referrals for college enrollment and tuition assistance;
- Workplace focused instruction for area businesses; and
- Distance education by internet to supplement classroom hours.

Call 903.463.8784 or email ael@grayson.edu for class information.

Core Curriculum

AA, AS, and AAT Requirements

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. See below for allowable courses offered at Grayson College 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 (Quantitative Reasoning)
- MATH 1342(Elementary Statistical Methods)
- MATH 2312 (Pre-Calculus Math)
- MATH 2413 (Calculus I)

Life and Physical Sciences (6 hours)

- AGRI 1307 (Agronomy)
- AGRI 1315 (Horticulture)
- AGRI 1319 (Introductory Animal Science)
- 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)
- BIOL 2302 (Anatomy & Physiology II)
- BIOL 2320 (Microbiology for Non-Science Majors)
- BIOL 2321 (Microbiology for Science Majors)
- BIOL 2404 (Anatomy & Physiology (specialized, single-semester course, lecture + lab))
- 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 CAO 2.

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 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
- ARTS 1313 Foundations of Art
- DRAM 1310 Theater Appreciation
- MUSI 1306 Music Appreciation
- MUSI 1307 Music Literature
- MUSI 1310 American Music

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)

- AGRI 2317 Introduction to Agricultural Economics
- CRIJ 1301 Introduction to Criminal Justice
- CRIJ 1307 Crime in America
- ECON 2301 Principles of Macroeconomics
- ECON 2302 Principles of Microeconomics
- GEOG 1302 Human Geography
- GEOG 1303 World Regional Geography

- PSYC 2301 General Psychology
- PSYC 2314 Lifespan Growth & Development
- SOCI 1301 Introductory Sociology
- SOCI 1306 Social Problems
- TECA 1354 Child Growth and Development

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

Two (2) hours from science lab courses listed below which are taken with science courses above; and four (4) hours from any of the core courses listed above or from the following list of courses.

Note: Courses cannot be counted more than once.

- COSC 1301 Introduction to Computing
- COSC 1336 Programming Fundamentals I
- EDUC1300/PSYC 1300 Learning Frameworks
- PHED 1164 Introduction to Physical Fitness and Wellness

Science Lab Courses:

- AGRI 1107 Agronomy Lab
- AGRI 1115 Horticulture Lab
- AGRI 1119 Introductory Animal Science Lab
- 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 17
- CHEM 1112 General Chemistry II Lab
- 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

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.

AAS Requirements

Students earning an Associate of Applied Science Degree at Grayson College must complete a minimum of 15 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 Quantitative Reasoning
- 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 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 1301 Introduction to Criminal Justice
- 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 Theater Appreciation
- HUMA 1301 Introduction to the Humanities
- HUMA 1302 Introduction to the Humanities II
- MUSI 1310 American Music
- 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

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

Curriculum by Pathway

Arts & Humanities

Fine Arts

Overview

The Associate of Arts (AA) Fine Arts degree at Grayson College is designed for transfer to four-year institutions and is part of the **Arts & Humanities Career Pathway**. All students are advised to consult 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 - Fine Arts

AA in Fine Arts Curriculum

Subject	Semester Hours
ENGL 1301 (Composition I)	3
American History Core	3
Mathematics Core	3
ARTS 1311 (Design I)	3
ARTS 1316 (Drawing I)	3
SPCH 1311, SPCH 1315 or SPCH 1321 (Communication Core)	3
American History Core	3
ARTS 1303 (Art History I)	3
ARTS 1312 (Design II)	3
ARTS 1317 (Drawing II)	3
Government/Political Science Core	3
Life and Physical Science Core	3
Life and Physical Science Lab (CAO)	1
Social and Behavioral Science Core	3
ARTS 1304 (Art History II)	3
Fine Arts Elective	3
Government/Political Science Core	3
Component Area Option Core	1
Language, Philosophy, and Culture Core	3
Life and Physical Science Core	3
Life and Physical Science Lab (CAO)	1
Fine Arts Elective	3
total:	**60**

****Fine Arts Electives:**

- ARTS 2316 (Painting I)
- ARTS 2317 (Painting II)
- ARTS 2346 (Ceramics I)
- ARTS 2347 (Ceramics II)
- ARTS 2348 (Digital Media)
- ARTS 2389 (Academic Cooperative)

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

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

General Studies

Overview

For students interested in pursuing a degree and transferring to a four-year institution, as a general rule, students should follow the **Associate of Arts (AA) Degree in General Studies or the Associate of Science (AS) Degree in General Studies** in a desired Pathway at Grayson College. All students are advised to consult 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/AS Degree Requirements

Associate of Arts/Associate of Science - General Studies

AA/AS in General Studies Curriculum

Subject	Semester Hours
Component Area Option Core	3
ENGL 1301 (Composition I)	3
American History Core	3
Mathematics Core	3
Social and Behavioral Sciences Core	3
Communication Core	3
American History Core	3
Life and Physical Science Core	3
Life and Physical Science Lab (CAO)	1
Language, Philosophy and Culture Core	3
Component Area Option Core	1
Government/Political Science Core	3
Life and Physical Science Core	3
Life and Physical Science Lab (CAO)	1
Academic Elective	3
Academic Elective	3
Academic Elective	3
Creative Arts Core	3
Government/Political Science Core	3
Academic Elective	3
Academic Elective	3
Academic Elective	3
Total:	**60**

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

The Associate of Science/Associate of Arts Degrees require that TSI requirements are met.

Please review your Student Planner or contact your Student Success Coach/Faculty Advisor to review which courses may be used to fill this degree requirement.

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
- HIST 2322
- PHIL 1304
- ENGL 2322
- ENGL 2323
- ENGL 2327
- ENGL 2328
- ENGL 2332
- ENGL 2333

- ENGL 2351
- GEOG 1303
- SPAN 2311
- SPAN 2312

Fields of Study

History Field of Study

Subject	Semester Hours
HIST 1301 (United States History I)	3
HIST 1302 (United States History II)	3
HIST 2321 (World Civilizations I)	3
HIST 2322 (World Civilizations II)	3
HIST 2301 (Texas History)	3
Directed Elective	3
Directed Elective	3
Total:	**21**

Students should consult with their Success Coach and/or Faculty member to determine the appropriate History FOS elective as these electives are determined by the transfer university they plan on attending.

Political Science and Government Field of Study

Subject	Semester Hours
MATH 1342 (Elementary Statistical Methods)	3
GOVT 2304 (Intro to Political Science)	3
GOVT 2305 (Federal Government)	3
GOVT 2306 (Texas Government)	3
Directed Elected	3
Directed Elected	3
Total:	**18**

Students should consult with their Success Coach and/or Faculty member to determine the appropriate Political Science FOS elective as these electives are determined by the transfer university they plan on attending.

Psychology Field of Study

Subject	Semester Hours
PSYC 2301 (General Psychology)	3
PSYC 2314 (Lifespan Growth & Development)	3
PSYC 2317 (Statistical Methods in Psychology)	3
PSYC 2319 (Social Psychology)	3
Directed Elective	3
Directed Elective	3
Total:	**18**

Students should consult with their Success Coach and/or Faculty member to determine the appropriate Psychology FOS elective as these electives are determined by the transfer university they plan on attending.

Social Work Field of Study

Subject	Semester Hours
ENGL 1301 (Composition I)	3
ENGL 1302 (Composition II)	3
SOCW 2361 (Introduction to Social Work)	3
SOCW 2362 (Social Welfare: Legislation, Programs, and Services)	3
SOCI 1306 (Social Problems)	3
SOCW 2389 (Academic Cooperative)	3
Approved Social Work Field of Study Elective	3
Approved Social Work Field of Study Elective	3

Subject	Semester Hours
Total:	**24**

Students should consult with their Success Coach and/or Faculty member to determine the appropriate Social Work FOS elective as these electives are determined by the transfer university they plan on attending.

Sociology Field of Study

Subject	Semester Hours
SOCI 1301 (Introduction to Sociology)	3
SOCI 1306 (Social Problems)	3
SOCI 2301 (Marriage and Family)	3
SOCI 2319 (Minority Studies)	3
Directed Electives	3
Directed Electives	3
Directed Electives	3
Total:	**21**

Students should consult with their Success Coach and/or Faculty member to determine the appropriate Sociology FOS elective as these electives are determined by the transfer university they plan on attending.

Music

Overview

The **Associate of Arts (AA) in Music** at Grayson College is designed for transfer to four-year institutions. However, all students are advised to consult with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Bachelor of Music program.

In addition to a degree, Grayson College also offers an **Audio Engineering Occupational Skills Award** and an **Audio Engineering Small Business Certificate,** which is designed to be the 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. The courses in the certificate provide the necessary knowledge for managing a small business.

AA Degree Requirements

Associate of Arts - Music

AA in Music Curriculum

Subject	Semester Hours
MUSI 1311 (Music Theory I)	3
MUSI 1116 (Sight Singing and Ear Training I)	1
MUSI 1181 (Piano Class I)	1
MUAP 12XX (Applied Lesson)	2
MUEN 11XX (Ensemble)	1
ENGL 1301 (Composition I)	3
MUSI 1307 (Music Literature)	3
MUSI 1312 (Music Theory II)	3
MUSI 1117 (Sight Singing and Ear Training II)	1
MUSI 1182 (Piano Class II)	1
MUAP 12XX (Applied Lesson)	2
MUEN 11XX (Ensemble)	1
GOVT 2305 or GOVT 2306	3
PHIL 1301, ENGL 2322, ENGL 2327, or ENGL 2332	3
Mathematics Core	3
MUSI 2311 (Music Theory III)	3
MUSI 2116 Sight Singing and Ear Training III)	1
MUSI 2181 (Piano Class III)	1
MUAP 22XX (Applied Lesson)	2
MUEN 21XX (Ensemble) or MUSI 1157	1
HIST 1301 (United States History I)	3
PSYC 2301 or ECON 2301	3
MUSI 2312 (Music Theory IV)	3
MUSI 2117 (Sight Singing and Ear Training IV)	1
MUSI 2182 (Piano Class IV)	1
MUAP 22XX (Applied Lesson)	2
MUEN 21XX (Ensemble)	1
Life and Physical Science Core	3
Life and Physical Science Core	1
HIST 1302 (United States History II)	3
Total:	**60**

See the courses tab for available electives.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core degree requirements.

Audio Engineering

Audio Engineering Small Business - Certificate

Audio Engineering Small Business Certificate Curriculum

Subject	Semester Hours
BUSI 1301 (Business Principles)	3
BMGT 1327 (Principles of Management)	3
MUSC 1327 (Audio Engineering I)	3
MUSC 1213 (Commercial Music Theory I)	2
MUSP 1110 (Applied Commercial Music: Piano)	1
Business Elective	3
MUSC 2327 (Audio Engineering II)	3
MUSC 1321 (Songwriting I)	3
MUSB 1305 (Survey of Music Business)	3
MUSC 2201 (Audio Engineering Practices)	2
total:	**26**

Electives

- BUSG 2309
- ACCT 2301
- BUSG 1304
- ACNT 1313
- BUSG 2305
- ITSC 1309
- MRKG 1311
- MRKG 2333
- MRKG 1302

Audio Engineering - Occupational Skills Award

Audio Engineering Occupational Skills Award Curriculum

Subject	Semester Hours
MUSC 1327 (Audio Engineering I)	3
MUSC 1213 (Commercial Music Theory I)	2
MUSC 2327 (Audio Engineering II)	3
MUSB 1305 (Survey of Music Business)	3
MUSC 2201 (Audio Engineering Practices)	2
MUSP 1110 (Applied Commercial Music Piano)	1
total:	**14**

Field of Study

Music Field of Study

Subject	Semester Hours
MUEN 11XX (Ensemble)	1
MUEN 11XX (Ensemble)	1
MUEN 12XX (Ensemble)	2
MUAP 11XX (Applied Study)	1
MUAP 12XX (Applied Study)	2
MUAP 21XX (Applied Study)	1

Subject	Semester Hours
MUAP 22XX (Applied Study)	2
MUSI 1311 (Music Theory 1)	3
MUSI 1312 (Music Theory 2)	3
MUSI 2311 (Music Theory 3)	3
MUSI 2312 (Music Theory 4)	3
MUSI 1116 (Sight Singing and Ear Training 1)	1
MUSI 1117 (Sight Singing and Ear Training 2)	1
MUSI 2116 (Sight Singing and Ear Training 3)	1
MUSI 2117 (Sight Singing and Ear Training 4)	1
MUSI 1307 (Music Literature)	3
	total: **29**

Theatre

Overview

The **Associate of Arts (AA) Degree in Theatre** 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 consult 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

AA in Theatre Curriculum

Subject	Semester Hours
Mathematics Core	3
ENGL1301 (Composition I)	3
American History Core	3
DRAM 1330 Stagecraft I (only offered in Fall)	3
DRAM 2355 (Script Analysis)	3
DRAM 1351 Acting I (only offered in Fall)	3
DRAM 1120 Theatre Practicum 1 (Must take with Acting 1)	1
DRAM 1121 Theatre Practicum 2 (Must take with Stagecraft 1)	1
DRAM 2120 Theatre Practicum 3	1
DRAM 2121 Theatre Practicum 4 (Must take with Acting II)	1
SPCH 1315 (Public Speaking)	3
GOVT 2305 (Federal Government)	3
GOVT 2306 (Texas Government)	3
American History Core	3
Life and Physical Sciences Core	3
Life and Physical Sciences Lab (CAO)	1
Life and Physical Science Core	3
Life and Physical Science Lab (CAO)	1
Language, Philosophy, and Culture Core	3
Component Area Option Core	1
Social and Behavioral Science Core	3
DRAM 1310 (Theatre Appreciation)	3
DRAM 1352 (Acting II) or DRAM 2331 (Stagecraft II)	3
DRAM 1120 (Theatre Practicum 1) or DRAM 1121 (Theatre Practicum 2)	1
DRAM 2120 (Theatre Practicum 3) or DRAM 2121 (Theatre Practicum 4)	1
Component Area Option Core	3
total:	**60**

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

The Associate of Arts (AA) Degree requires that TSI requirements are met.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Business & Entrepreneurship

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 (AAS) Degree in Accounting** and the one-year **Accounting Certificate** 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. This program also offers a Bookkeeping Certificate and an Accounting Occupational Skills Award

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Course Requirements

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

Capstone Experience

Graduation with the **Associate of Applied Science (AAS) Degree in Accounting** requires successful completion of ACNT 2302, Accounting Capstone. The one-year **Accounting Certificate** requires the successful completion of a comprehensive exit exam administered by the Accounting Department. The exam must be completed with at least 70% accuracy during the week prior to final exams of the semester in which the coursework is completed.

Local Employers

CIGNA, Sherman Medical Center, TMC, Local municipalities, Texas Instruments

AAS Degree Requirements

Associate of Applied Science - Accounting

AAS in Accounting Curriculum

Subject	Semester Hours
ACCT 2301 (Principles of Financial Accounting)	3
ENGL 1301 (Composition I)	3
BUSI 1301 (Business Principles)	3
BCIS 1305 (Business Computer Applications) or ITSC 1309 (Integrated Software)	3
BUSG 1304 (Financial Literacy)	3
ACCT 2302 (Principles of Managerial Accounting)	3
MRKG 1311 (Principles of Marketing)	3
BMGT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
BMGT 1305 (Communications in Management)	3
ACNT 1331 (Federal Income Tax - Individual)	3
SPCH 1311 (Introduction to Speech) or SPCH 1321 (Business & Professional Communication)	3
Mathematics/Life and Physical Sciences Core	3
Language, Philosophy, and Culture/Creative Arts Core	3
ACNT 1311 (Introduction to Computerized Accounting)	3
ACNT 1329 (Payroll and Business Tax Accounting)	3
BUSG 2305 (Business Law/Contracts)	3
ACNT 1313 (Computerized Accounting Applications)	3

Subject	Semester Hours
ACNT 2302 (Accounting Capstone)	3
BMGT 1341 (Business Ethics)	3
Total:	**60**

Students may substitute alternate courses or choose electives under the direction of the division Dean. To graduate, students must demonstrate college readiness according to the TSI requirements.

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

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Certificate and Award Requirements

Bookkeeping - Certificate

Bookkeeping Certificate Curriculum

Subject	Semester Hours
ACCT 2301 (Principles of Financial Accounting)	3
BCIS1305 (Business Computer Applications) or ITSC 1309 (Integrated Software)	3
ACNT1329 (Payroll and Business Tax Accounting)	3
ACNT 1311 (Introduction to Computerized Accounting)	3
ACNT 1313 (Computerized Accounting Applications (Capstone))	3
Total:	**15**

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

Capstone Requirement: All students must complete the required capstone course Accounting Capstone ACNT 1313 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

Accounting - Certificate

Accounting Certificate Curriculum

Subject	Semester Hours
ACCT 2301 (Principles of Financial Accounting)	3
ACNT 1311 (Introduction to Computerized Accounting)	3
BUSI 1301 (Business Principles)	3
BMGT 1305 (Communications in Management)	3
BUSG 1304 (Financial Literacy)	3
ACCT 2302 (Principles of Managerial Accounting)	3
ACNT 1329 (Payroll and Business Tax Accounting)	3
BCIS 1305 (Business Computer Applications) or ITSC 1309 (Integrated Software)	3
ACNT 1313 (Computerized Accounting Applications)	3
ACNT 1331 (Federal Income Tax - Individual (Capstone))	3
Total:	**30**

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

Capstone Requirement: All students must complete the required capstone course Accounting Capstone ACNT 1331 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

Accounting - Occupational Skills Award

Accounting Occupational Skills Award Curriculum

Subject	Semester Hours
ACCT 2301 (Principles of Financial Accounting)	3
BCIS 1305 (Business Computer Applications) or ITSC 1309 (Integrated Software)	3
ACNT 1313 (Computerized Accounting Applications)	3

Subject	Semester Hours
	Total: **9**

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

Administrative Professional

Overview

Today's office environment demands proficiency with the internet and a variety of software applications. The ability to quickly and easily learn new programs is a necessity to perform tasks efficiently and accurately.

The **Associate of Applied Science (AAS) Degree in Administrative Professional** is a 60-hour online program 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, including newly added coursework in AI use and literacy and virtual meeting management.

The **Administrative Professional Certificate** is a 42-hour online program that will prepare the student for assisting an executive or professional in decision-making, conducting research, meeting and working with the public, and managing the office.

The **Medical Office Management and Billing & Coding Specialist Certificate** is a 42-hour online program that will prepare the student to work in a variety of settings throughout the healthcare industry including hospitals, physician offices, insurance companies, government agencies, and companies providing services to the medical community. Areas of study include medical coding, terminology, ethics, and electronic health records management.

Course Requirements

Grayson College requires a high school diploma or equivalent. The Associate of Applied Science Degree requires that TSI requirements are met. Some of the courses require prerequisites. Refer to the GC catalog for specific information.

Capstone Experience

Graduation with the Associate of Applied Science (AAS) Degree or any of the certificates requires the successful completion of POFT 1313 (Professional Workforce Preparation). 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, Sherman Medical Center

AAS Degree Requirements

Associate of Applied Science - Administrative Professional

AAS in Administrative Professional Curriculum

Subject	Semester Hours
EDUC 1300 (Learning Frameworks)	3
ENGL 1301 (Composition I)	3
POFT 1301 (Business English)	3
Directed Electives	3
Mathematics/Life and Physical Sciences Core	3
Directed Electives	3
Social and Behavioral Science Core	3
Directed Electives	3
ACCT 2301 (Principles of Financial Accounting)	3
BUSG 1304 (Financial Literacy)	3
Directed Electives	3
Language, Philosophy, and Culture/Creative Arts Core	3
ITSW 1304 (Introduction to Spreadsheets)	3
Directed Electives	3

Subject	Semester Hours
Approved Elective	3
Directed Electives	
ACNT 1313 (Computerized Accounting Applications)	3
ITSW 1307 (Introduction to Database)	3
Approved Elective	
POFT 1313 (Capstone) (Professional Workforce Preparation)	3
Total:	**60**

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

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fulfill core requirements.

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.

For students interested in the Administrative Professional Focus, the following six elective courses are recommended: BCIS 1305 or ITSC 1309, BUSI 1301, MRKG 1311 POFT 1391, POFI 1391, and TRVM 2301.

For students interested in the Medical Coding focus, the following six courses are recommended: HITT 1305, HITT 1311, HITT 1341, HITT 1353, HITT 2346, and POFM 1317

Directed Electives

- BCIS 1305
- BUSI 1301
- ITSC 1309
- HITT 1305
- HITT 1353
- HITT 1341
- HITT 2346
- HITT 1311
- POFM 1317
- MRKG 1311
- POFT 1391
- POFI 1391
- TRVM 2301

Approved Electives

- ACCT 2302
- BMGT 2309
- ITSC 2321
- POFI 2301
- POFT 2303
- POFT 2312
- POFI 1301
- POFT 2331
- SPCH 1311
- SPCH 1321

Certificate Requirements

Administrative Professional - Certificate

Administrative Professional Certificate Curriculum

Subject	Semester Hours
POFT 1301 (Business English)	3
POFT 1391 (Special Topics: Artificial Intelligence for Administrative Use 1)	3
BCIS 1305 (Business Computer Applications) or ITSC 1309 (Integrated Software)	3

Subject	Semester Hours
Elective	3
ACCT 2301 (Principles of Financial Accounting)	3
POFI 1391 (Special Topics: Artificial Intelligence for Administrative Use 2)	3
ITSW 1304 (Introduction to Spreadsheets)	3
TRVM 2301 (Introduction to Convention/Meeting Management)	
BUSG 1304 (Financial Literacy)	3
ITSW 1307 (Introduction to Database)	3
ACNT 1313 (Computerized Accounting Applications)	3
POFT 1313 (Capstone) (Professional Workforce Preparation)	3
Total:	**36**

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.

Administrative Professional Electives

- ACCT 2302
- BUSI 1301
- BMGT 2309
- ITSC 2321
- POFI 1301
- POFT 2303
- POFT 2312
- POFT 2331
- MRKG 1311

Medical Office Management and Billing & Coding Specialist - Certificate

Medical Office Management and Billing & Coding Specialist Curriculum

Subject	Semester Hours
POFT 1301 (Business English)	3
HITT 1305 (Medical Terminology I)	3
POFT 1391 (Special Topics: Artificial Intelligence for Administrative Use 1)	3
BCIS 1305 (Business Computer Applications) or ITSC 1309 (Integrated Software)	3
POFI 1391 (Special Topics: Artificial Intelligence for Administrative Use 2)	3
ITSW 1304 (Introduction to Spreadsheets)	3
HITT 1341 (Coding and Classification Systems)	3
HITT 1311 (Health Information Systems)	3
HITT 2346 (Advanced Medical Coding)	3
HITT 1353 (Legal and Ethical Aspects of Health Information)	3
POFM 1317 (Medical Administrative Support)	3
POFT 1313 (Capstone) (Professional Workforce Preparation)	3
Total:	**36**

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.

Occupational Skills Award Requirements

Administrative Professional - Occupational Skills Award

Administrative Professional Occupational Skills Awards Curriculum

Subject	Semester Hours
POFT 1301 (Business English)	3

Subject	Semester Hours
BCIS 1305 (Business Computer Applications) or ITSC 1309 (Integrated Software)	3
ITSW 1304 (Introduction to Spreadsheets)	3
Total:	**9**

Institutional Credentials

Medical Billing and Coding - Institutional Credit

Medical Billing and Coding IC Sequence

Subject	Contact Hours
POFM 1000 (Basic Medical Coding)	128
Total:	**128**

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

Admission to Grayson College requires a high school diploma or equivalent. The certificates are TSI exempt.

Capstone Experience

Graduation with either the **General Banking Certificate** requires successful completion of a capstone course.

Certificate Requirements

General Banking - Certificate

General Banking Certificate Curriculum

Subject	Semester Hours
ACCT 2301 (Principles of Financial Accounting)	3
BUSG 2309 (Small Business Management)	3
MRKG 1311 (Principles of Marketing)	3
BUSG 1304 (Financial Literacy)	3
INSR 1351 (Essentials of Risk Management)	3
AGMG 1311 (Introduction to Agribusiness)	3
BNKG 1303 (**Capstone** - Principles of Banking Operations)	3
Total:	**21**

Enroll in BNKG 1303 during the semester you plan to complete the certificate.

Business

Overview

An educational background in Business can take many forms, depending on a student's personal goals and plans. Grayson College's Business degrees and certificates have been designed to fit the most popular options and offer flexibility to meet 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 and other information in today's global business environment.

Students will develop a foundation of communication, economic, accounting, and computer application skills. This will enhance their 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 **Associate of Science (AS) Degree in Business Administration** is designed for transfer to four-year institutions. All students are advised to consult 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 **Associate of Applied Science (AAS) Degree in Business and Management** offers two certificates that may be completed on the way to earning the AAS, the **Business Foundation Certificate** and the **General Management Certificate.**

AS Degree Requirements

Associate of Science - Business Administration

Business Administration AS Curriculum

Subject	Semester Hours
BCIS 1305 (Business Computer Applications)	3
BUSI 1301 (Business Principles)	3
HIST 1301 (United States History I)	3
ENGL 1301 (Composition I)	3
MATH 1314 (College Algebra) or MATH 1324 (Mathematics for Business and Social Sciences)	3
BUSI 2305 (Business Statistics)	3
SPCH 1321 (Business & Professional Communication)	3
HIST 1302 (U.S. History II)	3
ENGL 1302 (Composition II)	3
Component Area Core Option	1
ACCT 2301 (Principles of Financial Accounting)	3
HUMA 1301 (Introduction to Humanities I) or HUMA 1302 (Introduction to Humanities II)	3
GOVT 2305 (Federal Government)	3
GEOL 1301 (Earth Sciences)	3
GEOL 1101 (Earth Sciences Lab I)	1
ECON 2301 (Principles of Macroeconomics I)	3
ECON 2302 (Principles of Microeconomics)	3
ACCT 2302 (Principles of Managerial Accounting	3
GOVT 2306 (Texas Government)	3
ARTS 1301 (Art Appreciation) or MUSI 1306 (Music Appreciation)	3
BIOL 1308 (Biology for Non-Science Majors)	3
BIOL 1108 (Biology Lab for Non-Science Majors)	1
Total:	**60**

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

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fulfill core requirements.

It is recommended that students meet with a counselor or academic advisor at the four-year institution of their choice to determine which courses will transfer to that institution's Bachelor's degree.

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.

AAS Degree Requirements

Associate of Applied Science - Business and Management

AAS in Business and Management Curriculum

Subject	Semester Hours
ACCT 2301 (Principles of Financial Accounting)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3
ITSC 1309 (Integrated Software Applications)	3
ACNT 1313 (Computerized Accounting Applications)	3
BMGT 1305 (Communications in Management)	3
BMGT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
SPCH 1321 (Business & Professional Communication) or SPCH 1311 (Introduction to Speech Communication)	3
BUSG 2305 (Business Law/Contracts)	3
MRKG 1302, 1311 or 2333	3
HRPO 2301 (Human Resources Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Accounting)	3
ENGL 1301 (Composition I)	3
ECON 2302 (Principles of Microeconomics)	3
Mathematics/Life and Physical Sciences Core	3
BMGT 1341 (Business Ethics (Capstone))	3
Language, Philosophy and Culture Core	3
total:	**60**

Capstone Requirement: All students must complete the required capstone course BMGT 1341 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

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

Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

It is recommended that students meet with a counselor or academic advisor at the four-year institution of their choice to determine which courses will transfer to that institution's Bachelor's degree.

Certificate Requirements

Business General Management - Certificate

Business General Management Certificate Curriculum

Subject	Semester Hours
ACCT 2301 (Principles of Financial Accounting)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership)	3

Subject	Semester Hours
ITSC 1309 (Integrated Software Applications I)	3
ACNT 1313 (Computerized Accounting Applications)	3
BMGT 1305 (Communications in Management)	3
BMGT 1327 (Principles of Management)	3
ECON 2301 (Principles of Macroeconomics)	3
SPCH 1311, 1315, or 1321	3
MRKG 1311 or MRKG 1302 or MRKG 2333	3
HRPO 2301 (Human Resources Management)	3
BUSG 2309 (Small Business Management)	3
ACCT 2302 (Principles of Managerial Accounting)	3
BUSG 2305 (Business Law/Contracts (Capstone))	3
Total:	**45**

Courses should be taken in order.

Capstone Requirement: All students must complete the required capstone course BUSG 2305 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

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

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fulfill core requirements.

Business Foundation - Certificate

Business Foundation Certificate Curriculum

Subject	Semester Hours
ACCT 2301 (Principles of Financial Accounting)	3
BUSI 1301 (Business Principles)	3
BUSG 1304 (Financial Literacy)	3
BMGT 2309 (Leadership (Capstone))	3
ITSC 1309 (Integrated Software Applications)	3
Total:	**15**

This is also semester one of the Associate of Applied Science (AAS) Degree in Business and Management.

Capstone Requirement: All students must complete the required capstone course BMGT 2309 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

Field of Study Requirements

Business Administration Field of Study

Business Administration Field of Study Curriculum

Subject	Semester Hours
ECON 2301 (Principles of Macroeconomics)	3
MATH 1324 (Mathematics for Business and Social Sciences)	3
ECON 2302 (Principles of Microeconomics)	3
ACCT 2301 (Principles of Financial Accounting)	3
ACCT 2302 (Principles of Managerial Accounting)	3
BUSI 1301 (Business Principles)	3
Directed Electives	3
Directive Electives	3
Total:	**24**

Approved Electives

Students should consult with their Success Coach and/or Faculty member to determine the appropriate Business Administration FOS elective as these electives are determined by the transfer university they plan on attending.

Cosmetology

Overview

Grayson College's Cosmetology programs may be completed in less than a year and offer more affordable tuition rates when compared to private training programs.

Students gain hands-on experience in a modern, fully equipped salon environment, working with real patrons from the community to build confidence, refine technical skills, and prepare for professional success. The Cosmetology Salon is conveniently located in the Career and Technology Center on the Main Campus, providing a dynamic, real-world learning atmosphere.

The 32-week Cosmetology Certificate program equips students with the professional knowledge and practical skills needed to thrive in today's beauty industry. Training includes:

- Hair styling and shaping
- Manicures and pedicures
- Skincare services
- Chemical reformation
- Principles of hair coloring
- And other essential cosmetology techniques

The **Cosmetology to Barber Certificate** is designed exclusively for licensed cosmetologists, this dynamic 15-credit-hour certificate program allows students to expand their skillset and step confidently into the world of barbering with training in precision hair cutting, straight razor, class and modern barbering techniques and professional grooming services. Upon successful completion, you'll receive a certificate of graduation and become eligible to apply for the State Board Barber Examination. Once you pass the state exam, you'll officially earn your Barber license.

The **Class A Barber Certificate** is an exciting 32-week certificate program that blends the art of cosmetology with the precision of barbering to develop skills in hair styling and shaping, manicures, pedicures, skincare, chemical reformation, principles of hair coloring and hair cutting, straight-razor shaving. Upon successful completion of the program, students will earn their certificate of graduation and become eligible to apply for the State Board Barber Examination.

The **Nail Technician Certificate** allows students to gain professional training and hands on experience in a single semester of 16 weeks. It teaches skills in manicuring, nail structure and growth, nail applications, sanitation and safety practices, and nail art. Upon successful completion of the program, graduates earn a certificate of completion and become eligible to apply for the State Board Examination. After passing the state exam, students become Licensed Nail Technicians

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The **Esthetician and Skin Care Specialist Certificate** program prepares students with professional skills for hands on practice in the skincare industry. It is a 7 month certificate program with training in skincare techniques, facial treatments and skin analysis, product knowledge and application, sanitation and safety, client consultation and other aesthetics services. Upon completion of the program, graduates are awarded a certificate of graduation and become eligible to apply for the State Board Examination. Students who successfully pass the state exam will earn their license as an Esthetician and Skin Care Specialist

Course Requirements

- The **Cosmetology Certificate** program requires a high school diploma or GED, completion of 33 semester hours of cosmetology courses and 1000 clock hours. High School students in the 11th grade may enter, but must complete the high school requirements before receiving their certificate with 1000 hours of cosmetology and completion of a high school diploma.
- The **Cosmetology to Barber Certificate** requires a high school diploma or GED, a current state-issued cosmetology license, completion of 16 semester hours of barbering courses and 300 clock hours.
- The **Class A Barber Certificate** requires a high school diploma or GED, completion of 37 semester hours of cosmetology and barbering courses and 1000 clock hours.
- The **Nail Technician Certificate** program requires a high school diploma or GED, must be 17 years of age and completion of 600 clock hours.
- The **Esthetician and Skin Care Specialists Certificate** program requires a high school diploma or GED, must be 17 years of age and completion of 750 hours.

Capstone Experience

- The Class A Barber Certificate requires successful completion of BARB 2441 with at least a 70% and a mock Barber State Board Exam.

- The **Cosmetology Certificate** requires successful completion of CSME 2441 with at least a 70% and mock Cosmetology State Board Exam.
- **Nail Technician Certificate** requires successful completion of CSME 2430 with at least a 70% and a mock State Board Exam.
- The **Esthetician and Skin Care Certificate** requires successful completion of CSME 2431 with at least a 70% and a mock Esthetician State Board Exam.

Local Employers

J. Toland, Big Apple Beauty Mall, Pro-Cuts, JCPenney, Continental, Ulta, Great Clips, Bella Fontana

Certificate Requirements

Cosmetology - Certificate

Cosmetology Certificate Curriculum

Subject	Semester Hours
CSME 1401 (Orientation to Cosmetology)	4
CSME 1410 (Introduction to Haircutting and Related Theory)	4
CSME 1405 (Fundamentals of Cosmetology)	4
CSME 1420 (Orientation to Facial Specialist)	4
CSME 2501 (The Principles of Hair Coloring and Related Theory)	5
CSME 1453 (Chemical Reformation and Related Theory)	4
CSME 2439 (Advanced Hair Design)	4
CSME 2441 (Preparation for Texas Cosmetology Commission Examination)	4
total:	**33**

Upon completion of 33 semester hours of Cosmetology courses and completion of 1000 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.

Class A Barber - Certificate

Class A Barber Certificate Curriculum

Subject	Semester Hours
CSME 1401 (Orientation to Cosmetology)	4
CSME 1410 (Introduction to Haircutting and Related Theory)	4
CSME 1405 (Fundamentals of Cosmetology)	4
CSME 1420 (Orientation to Facial Specialist)	4
CSME 2501 (Principles of Hair Coloring and Related Theory)	5
BARB 1404 (Introduction to Barber Styling)	4
BARB 2431 (Advanced Barber Styling I)	4
BARB 2441 (Advanced Barber Styling II)	4
total:	**33**

Upon completion of 33 semester hours of Class A Barber and completion of 1000 clock hours, the student will be issued a certificate of completion and become eligible to apply for the Class A Barber State Board Exam.

Capstone Experience: Pass BARB 2441 with at least 70% and a mock Barber State Board Exam.

Cosmetology to Barber - Certificate

Cosmetology to Barber Certificate Curriculum

Subject	Semester Hours
BARB 1404 (Introduction to Barber Styling)	4
BARB 2431 (Advanced Barber Styling I)	4
BARB 2441 (Advanced Barber Styling II)	4
Approved Elective	3

Subject	Semester Hours
Total:	**15**

Electives

- General Education Degree Audit (any ACGM course)
- ITSC 1309 Integrated Software (2-3-3)
- MRKG 1311 Principles of Marketing (3-0-3)
- BUSG 2309 Small Business Management (3-1-3)
- BUSG 1304 Financial Literacy (2-3-3)

Upon completion of 15 semester hours of Cosmetology to Barber and completion of 300 clock hours, the student will be issued a certificate of completion and become eligible to apply for the Class A Barber State Board Exam.

Capstone Experience: Pass BARB 2441 with at least 70% and a mock Barber State Board Exam.

Esthetician and Skin Care Specialist - Certificate

Esthetician and Skin Care Specialist Certificate Curriculum

Subject	Semester Hours
CSME 1348 (Principles of Skin Care)	3
CSME 1547 (Principles of Skin Care/Facials and Related Theory)	5
CSME 1521 (Principles of Facial/Esthetics Technology)	5
CSME 1545 (Principles of Facial/Esthetics Technology II)	5
CSME 2431 (Principles of Facial/Esthetics Technology III)	4
Total:	**22**

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.

Nail Technician - Certificate

Nail Technician Certificate Curriculum

Subject	Semester Hours
CSME 1430 (Orientation to Nail Technology)	4
CSME 1431 (Principles of Nail Technology I)	4
CSME 1441 (Principles of Nail Technology II)	4
CSME 2430 (Nail Enhancement)	4
Total:	**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 2430 with at least 70% and a mock State Board Exam.

Hospitality and Culinary Arts

Overview

The **Associate of Applied Science (AAS) in 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 include several fields such as hotels, restaurants, resorts, casinos, cruise ships, nursing homes, and assisted living complexes; and positions can range from a supervisor, line manager, manager, sales personnel, human resources, and other related positions.

The **Associate of Applied Science (AAS) Degree in Culinary Arts** curriculum at Grayson College is an ACFEF accredited program designed to give graduates the skills and knowledge needed for a variety of positions and careers in professional kitchens. These careers can include several different avenues from fine dining to casual restaurants, casinos, cruise ships, dietary cooking, and much more. Positions can range from a knowledgeable and skilled line cook, sous chef, kitchen manager, or Executive Chef.

Culinary Arts Mission Statement

The mission of Grayson College's Culinary Arts program is to provide an environment for students to acquire the skills, knowledge, creativity and ethical values to increase their success in the rapidly changing, culturally diverse culinary and restaurant professions. The program also strives to provide practical experience in the industry by being involved in community service and the industry to promote confidence and personal enrichment.

In addition to Associate of Applied Science (AAS) Degrees, the College offers a **Hospitality Management Certificate,** a **Hospitality Management Occupational Skills Award,** a **Culinary Arts Certificate,** a **Culinary Arts Basic Chef Training Occupational Skills Award,** a **Culinary Arts Basic Chef Training Certificate,** and a **Pastry Arts Enhanced Skills Award.**

Graduates will develop many skills, both technical and higher thinking, that will help in their future supervisory roles. This will increase their value to an organization and set them apart from other job applicants. 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. Students in this program will also gain hands-on experience in a working restaurant (Six Ninety One at Grayson College) and in various service learning opportunities throughout their coursework.

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 admission requires a high school diploma or equivalent. The Associate of Applied Science (AAS) Degree requires that TSI requirements are met.

Capstone Experience

To earn a certificate in this program, all students must successfully complete a capstone course 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, Hilton Garden Inn, Local Restaurants and Hotels

AAS Degree Requirements

Associate of Applied Science Degree - Hospitality Management

AAS in Hospitality Management Curriculum

Subject	Semester Hours
CHEF 1305 (Sanitation and Safety)	3
RSTO 1313 (Hospitality Supervision)	3
HAMG 1321 (Introduction to Hospitality Industry)	3
ENGL 1301 (Composition I)	3
MATH 1332 (Quantitative Reasoning) or MATH 1314 (College Algebra)	3

Subject	Semester Hours
Social and Behavioral Sciences Core	3
CHEF 1301 (Basic Food Preparation)	3
RSTO 2301 (Principles of Food and Beverage Controls)	3
HAMG 1213 (Front Office Management)	2
HAMG, PSTR, CHEF or FDST Elective	3
SPCH 1311 (Introduction to Speech Communication) or SPCH 1321 (Business and Professional Communication)	3
CHEF 2331 (Advanced Food Preparation)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 1300 (Introduction to the Casino and Gaming Industry)	3
Language, Philosophy, and Culture/Creative Arts Core	3
HAMG 2305 (Hospitality Management and Leadership)	3
HAMG 2332 (Hospitality Financial Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2167 (Practicum or Field Experience)	1
CHEF 1314 (A La Carte Cooking)	3
Total:	**60**

Completion of CHEF 1205 with a grade of "B" or higher and a valid Servsafe certification is a prerequisite for CHEF 1301, CHEF 2331, CHEF 1314 and RSTO 1304.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

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.

Associate of Applied Science Degree - Culinary Arts

AAS in Culinary Arts Curriculum

Subject	Semester Hours
CHEF 1305 (Sanitation and Safety)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1321 (Introduction to Hospitality Industry)	3
ENGL 1301 (Composition I)	3
CHEF 2331 (Advanced Food Preparation)	3
RSTO 1313 (Hospitality Supervision)	3
IFWA 1210 (Nutrition and Menu Planning)	2
CHEF 1302 (Principles of Healthy Cuisine)	3
CHEF 1345 (International Cuisine)	3
MATH 1332 (Quantitative Reasoning) or MATH 1314 (College Algebra)	3
PSTR 1301 (Fundamentals of Baking)	3
CHEF 1310 (Garde Manger)	3
PSTR 2331 (Advanced Pastry Shop)	3
HAMG 2301 (Principles of Food and Beverage Operations)	3
RSTO 2301 (Principles of Food and Beverage Controls)	3
RSTO 1304 (Dining Room Service)	3
CHEF 1314 (A La Carte Cooking)	3
HUMA 1301 (Introduction to Humanities)	3
PSYC 2301 (General Psychology)	3
SPCH 1311 (Introduction to Speech Communication) or SPCH 1321 (Business and Professional Communication)	3

Subject	Semester Hours
CHEF 1164 (Practicum or Field Experience, Culinary Arts/Chef Training)	1
total:	**60**

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.

*Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

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 and Award Requirements

Hospitality Management - Certificate

Hospitality Management Certificate Curriculum

Subject	Semester Hours
CHEF 1305 (Sanitation and Safety)	3
RSTO 1313 (Hospitality Supervision)	3
HAMG 1321 (Introduction to Hospitality Industry)	3
CHEF 1301 (Basic Food Preparation)	3
RSTO 2301 (Principles of Food and Beverage Controls)	3
HAMG 1213 (Front Office Management)	2
HAMG 2301 (Principles of Food and Beverage Operations)	3
HAMG 1300 (Introduction to the Casino and Gaming Industry)	3
HAMG 2305 (Hospitality Management and Leadership)	3
HAMG 2332 (Hospitality Financial Management)	3
HAMG 2337 (Hospitality Facilities Management)	3
RSTO 1304 (Dining Room Service)	3
HAMG 2167 (Practicum or Field Experience)	1
Total:	**36**

Culinary Arts - Certificate

Culinary Arts Certificate Curriculum

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1305 (Sanitation and Safety)	3
HAMG 1321 (Introduction to Hospitality Industry)	3
RSTO 1313 (Hospitality Supervision)	3
PSTR 1301 (Fundamentals of Baking)	3
CHEF 1345 (International Cuisine)	3
CHEF 2331 (Advanced Food Preparation)	2
CHEF 1302 (Principles of Healthy Cuisine)	3
IFWA 1210 (Nutrition and Menu Planning) or BIOL 1322 (Nutrition and Diet Therapy)	2
CHEF 1314 (A La Carte Cooking)	3
RSTO 1304 (Dining Room Service)	3
PSTR 2331 (Advanced Pastry Shop)	3
CHEF 1310 (Garde Manger)	3
CHEF 1164 (Practicum or Field Experience, Culinary Arts/Chef Training)	1
Total:	**39**

*Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Culinary Arts Basic Chef Training - Certificate

Culinary Arts Basic Chef Training Certificate Curriculum

Subject	Semester Hours
CHEF 1301 (Basic Food Preparation)	3
CHEF 1305 (Sanitation and Safety)	3
HAMG 1321 (Introduction to Hospitality Industry)	3
CHEF 2331 (Advanced Food Preparation)	3
RSTO 1304 (Dining Room Service)	3
Approved Culinary Arts Elective	3
Approved Culinary Arts Elective	3
Approved Culinary Arts Elective	3
Total:	**24**

Approved Culinary Electives:

- CHEF 1310
- CHEF 1302
- CHEF 1345
- PSTR 1301
- PSTR 1305
- PSTR 1306
- PSTR 1340
- PSTR 2331

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.

Hospitality Management Occupational Skills Award

Hospitality Management Occupational Skills Award Curriculum

Subject	Semester Hours
CHEF 1305 (Sanitation and Safety)	3
CHEF 1301 (Basic Food Preparation)	3
RSTO 1313 (Hospitality Supervision)	3
HAMG 1321 (Introduction to Hospitality Industry)	3
Total:	**12**

Culinary Arts Basic Chef Training - Occupational Skills Award

Basic Chef Training Occupational Skills Award Curriculum

Subject	Semester Hours
CHEF 1305 (Sanitation and Safety)	3
CHEF 1301 (Basic Food Preparation)	3
HAMG 1321 (Introduction to Hospitality Industry)	3
CHEF 2331 (Advanced Food Prep)	3
Total:	**12**

Enhanced Pastry Arts Certificate

Enhanced Pastry Arts Certificate Curriculum

Subject	Semester Hours
PSTR 1305 (Breads and Rolls)	3
PSTR 1306 (Cake Decoration 1)	3
PSTR 1340 (Plated Desserts)	3

Subject	Semester Hours
PSTR 1343 (Bakery Operations and Management)	3
Total:	**12**

To enroll in the Enhanced Pastry Certificate program, students must first complete a Culinary Arts Associate of Applied Science (AAS) degree. This foundational degree equips students with essential culinary skills and knowledge, ensuring they are fully prepared for the advanced techniques and specialized training offered in the Enhanced Pastry Certificate program. The AAS degree provides the necessary prerequisites to excel in this advanced pastry-focused curriculum.

Health Sciences

Allied Health Professional (AHP) Programs

Certificates

EKG (Electrocardiogram) Technician - Industry Recognized Certificate (IRC)

EKG Technician IRC Sequence

Subject	Contact Hours
ECRD 1011 (Electrocardiography)	**64**
Total:	**64**

Occupational Skill Awards (OSA)

Certified Nurse Aide (CNA) - Career Ready Occupational Skill Award

CNA OSA Sequence

Subject	Contact Hours
NURA 1001 (Nurse Aide for Health Care)	96
NURA 1060 (Clinical Nursing Assistant / Aide and Patient Care Assistant/Aid)	48
Total:	**144**

Clinical Medical Assistant (CMA) - Career Ready Occupational Skill Award

CMA OSA Sequence

Subject	Contact Hours
MDCA 1009 (A&P for Medical)	64
HITT 1005 (Medical Terminology)	48
MDCA 1000 (Basic Medical Assistant Technology)	32
MDCA 2031 (Advanced Medical Assistant Technology)	32
HPRS 2000 (Pharmacology for Health Professionals)	48
MDCA 1060 (Clinical Medical / Clinical Assistant)	64
Total:	**244**

Patient Care Technician (PCT) - Career Ready Occupational Skill Award

Patient Care Technician OSA Sequence

Subject	Contact Hours
NUPC 1001 (Patient Care Technician/Assistant)	96
NUPC 1060 (Clinical Nursing Assistant/Aide and Patient Care Assistant/Aide)	64
Total:	**160**

Phlebotomy Technician - Career Ready Occupational Skill Award

Phlebotomy OSA Sequence

Subject	Contact Hours
PLAB 1023 (Phlebotomy)	96
PLAB 1060 (Clinical Phlebotomy/Phlebotomist)	48
Total:	**144**

Institutional Credentials

Mental Health Technician - Institutional Credit

Mental Health Technician Sequence

Subject	Contact Hours
PHMS 1009 (Psychiatric Technician 1)	80
Total:	**80**

Pharmacy Technician - Institutional Credit Leading to Licensure

Pharmacy Technician Sequence

Subject	Contact Hours
PHRA 1001 (Intro to Pharmacy)	40
PHRA 1043 (Pharmacy Tech Certification Review)	48
Total:	**88**

Athletic Training

Overview

The **Associate of Science (AS) Degree in Athletic Training** at Grayson College is designed for transfer to four-year institutions and can lead to a Bachelor's degree in sports management, athletic training, kinesiology, exercise science, and other various degrees related to health and fitness.

Students are advised to consult with the university/college of their choice to determine if all courses recommended by Grayson College are applicable to that institution's Athletic Training degree program.

Program Learning Outcomes

1. Describe the elements of health-related physical fitness, performance-related physical fitness, inactivity, and hypokinetic diseases on health and wellness.
2. Evaluate the dimensions of physical and mental wellness and how these relate to personal, community, and population health.
3. Recognize the skills needed in emergency situations including first aid, CPR, and AED.
4. Demonstrate the skills associated with injury prevention and management.

AS Degree Requirements

Associate of Science - Athletic Training

AS in Athletic Training Curriculum

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1342 (Elementary Statistical Methods)	3
American History Core	3
EDUC/PSYC 1300 (Learning Frameworks)	3
PHED 2356 (Care & Prevention of Athletic Injuries)	3
ENGL 1302 (Composition II) or SPCH 1311 (Introduction to Speech Communication)	3
Language, Philosophy, Culture Core	3
BIOL 1306 (Biology I)	3
BIOL 1106 (Biology I Lab)	1
Creative Arts Core	3
Government/Political Science Core	3
PHED 1301 (Foundations of Kinesiology)	3
BIOL 2301 (Anatomy & Physiology I Lecture)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
American History Core	3
PHED 1306 (First Aid)	3
PHED 1164 (Introduction to Physical Fitness & Sports)	1
Social Behavioral Science Core	3
Government/Political Science Core	3
BIOL 1322 (Nutrition and Diet Therapy)	3
PHED 1304 (Personal & Community Health I)	3
PHED 1346 (Drug Use & Abuse)	3
Total:	**60**

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

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Dental Assisting

Overview

There are two options for the Dental Assisting Program at Grayson College: **Dental Assisting Certificate** or the **Associate of Applied Science (AAS) Degree in Dental Assisting**.

The **Associate of Applied Science (AAS) 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 9.5 months of dental assisting coursework including classroom instruction, laboratory procedures, and supervised clinical experience in addition to 25 credit hours of academic coursework. The academic coursework can be taken either before or after the dental assisting coursework. Following the completion of all dental assisting course requirements, the student will be eligible to sit for the Registered Dental Assisting (RDA) licensing exam. Dental Assisting students who complete the program are given the exam at the completion of the program and are eligible to file an application to the State Board of Dental Examiners to obtain their RDA license. Since the Dental Assisting Program is accredited by The Commission on Dental Accreditation (CODA), graduates are also eligible to take the examination given by the Dental Assisting National Board (DANB) to become a Certified Dental Assistant (CDA).

Program Learning Outcomes:

1. Demonstrate mastery in the knowledge, technical skills, attitudes, and workplace skills necessary for successful employment in the dental assisting profession.
2. Demonstrate mastery of current methods, materials, supplies and equipment to meet occupational requirements and needs.
3. Identify and meet the standards of performance expected of them in the dental field.
4. Participate in extramural clinical experiences in a variety of offices throughout the dental community to gain practical experience and assist in job placement.
5. Evaluate factors that can be used to promote patient/ client adherence to disease prevention and/or health maintenance.
6. Successfully complete the dental assistant program competencies to be prepared to meet the employment needs of the dental community and the ADA standards.

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 9.5 month program. Upon completion, the graduate is eligible to sit for the Registered Dental Assisting (RDA) licensing exam. Dental Assisting students who complete the program are given the exam at the completion of the program, and are eligible to file an application to the State Board of Dental Examiners to obtain their RDA license. Graduates are also eligible to take the examination given by the Dental Assisting National Board (DANB) to become a Certified Dental Assistant (CDA) since the GC Dental Assisting program is accredited by the Commission on Dental Accreditation (CODA). Becoming an RDA and CDA ensures that the graduate is prepared to assist competently in providing quality dental care.

Transfer of College Coursework

Students who desire admission via transfer to GC must adhere to the GC course transfer policies outlined in the Student Handbook. This includes submitting official copies of transcripts from each college or university previously attended to the Office of Admissions and Records. Prerequisite and corequisite general education courses will be accepted for transfer and application if the course is evaluated as equivalent to the required course at GC. Health Science program courses are accepted for transfer only with prior approval of the Program Director and/or the admissions committee. Copies of course syllabi from all previous courses may be required to determine eligibility for transfer.

Eligibility for Licensure:

Students who have been involved in the criminal system may not be eligible for licensure following graduation. If you feel this applies to you, please seek guidance from the Program Director or Health Science Success Coach prior to enrollment.

Accreditation Information

This program is approved by:

The Commission on Dental Accreditation (CODA)
Ms. Jamie Asher Hernandez
Manager, Allied Dental Education
Commission on Dental Accreditation
211 East Chicago Avenue, Suite 1900
Chicago, Illinois 60611-2637

(800) 232-6108 ext. 4660
Commission on Dental Accreditation Website (opens in new window)

AAS Degree Requirements

Associate of Applied Science - Dental Assisting

AAS in Dental Assisting Curriculum

Subject	Semester Hours
ENGL 1301 (Composition I)	3
PSYC 2301 (General Psychology)	3
EDUC 1300/PSYC 1300, SPCH 1311, SPCH 1321, OR ENGL 2311	3
SOCI 1301 (Introduction to Sociology)	3
HIST 1301 (United States History I)	3
ARTS 1301, HUMA 1301, MUSI 1306 or PHIL 1301	3
BIOL 2404 or BIOL 2301/2101	4
MATH 1332 or MATH 1342 or MATH 1314	3
DNTA 1245 (Preventive Dentistry)	2
DNTA 1305 (Dental Radiology)	3
DNTA 1311 (Dental Science)	3
DNTA 1315 (Chairside Assisting)	3
DNTA 1202 (Comm and Behavior in the Dental Office)	2
DNTA 1301 (Dental Materials)	3
DNTA 1251 (Dental Office Management)	2
DNTA 1349 (Dental Radiology in the Clinic)	3
DNTA 1347 (Adv. Dental Science)	3
DNTA 1353 (Dental Assisting Applications)	3
DNTA 2230 (Seminar for the Dental Assistant I)	2
DNTA 1460 (Clinical-Dental Assisting)	4
DNTA 2260 (Clinical-Dental Assisting)	2
Total:	**60**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Certificate Requirements

Dental Assisting - Certificate

Dental Assisting Certificate Curriculum

Subject	Semester Hours
DNTA 1245 (Preventive Dentistry)	2
DNTA 1305 (Dental Radiology I)	3
DNTA 1311 (Dental Science)	3
DNTA 1315 (Chairside Assisting)	3
DNTA 1301 (Dental Materials)	3
DNTA 1202 (Comm. and Behavior in the Dental Office)	2
DNTA 1251 (Dental Office Management)	2
DNTA 1347 (Adv. Dental Science)	3
DNTA 1349 (Dental Radiology in the Clinic)	3
DNTA 1353 (Dental Assisting Applications)	3
DNTA 1460 (Clinical-Dental Assisting)	4
DNTA 2230 (Seminar for the Dental Assistant)	2

Subject	Semester Hours
DNTA 2260 (Clinical-Dental Assisting)	2
Total:	**35**

Emergency Medical Services-EMT/Paramedicine

Overview - Emergency Medical Services

The Emergency Medical Services (EMS) programs at Grayson College offer three levels of EMS education: the **EMT Occupational Skills Award**, the **EMT to Paramedicine Level 2 Certificate**, and the **Associate of Applied Science (AAS) in Paramedicine**.

The Emergency Medical Services (EMS) program's mission is 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. The curriculum includes classroom, skills labs, simulation labs, and clinical courses. Students must satisfactorily complete all the EMSP courses in each semester concurrently in order to progress to the next semester of the program, and all semesters must be taken in sequence. Acceptance into the program is required to take the EMSP courses.
Successful completion of an EMS Program will prepare the student for the National Registry Certification exam, to obtain state licensure, and to gain employment as an Emergency Medical Technician or Paramedic.

Detailed information about the program is provided in an information packet, available by sending an email request to EMS@grayson.edu.

The following general information about the EMS program is current at the time of printing, but all information is subject to change without notice or obligation.

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 the status of patients.
- EMS personnel should possess good manual dexterity, with the ability to perform all tasks related to highest quality patient care;
- the ability to bend, stoop, and crawl on uneven terrain and the ability to withstand varied environmental conditions, such as extreme heat, cold and moisture is vital; and
- The ability to work in low-light, confined spaces, and other dangerous environments is required.

Paramedic Program Learning Outcomes:

1. Integrate comprehensive knowledge to improve the health of EMS personnel, patients, and the community.
2. Safely and effectively perform all psychomotor skills within the national and state scope of practice for the paramedic.
3. Model exemplary professional behavior including integrity, empathy, communication, teamwork/diplomacy, respect, patient advocacy, and careful delivery of service in clinical practice settings.

Award, Certificate & Degree Options

Emergency Medical Technician – Occupational Skills Award

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 curriculum. The program includes classroom, laboratory, hospital and field instruction. This course can be completed in one semester.

EMT to Paramedicine – Level 2 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: Preparatory, Anatomy and Physiology, Medical Terminology, Pathophysiology, Life Span Development, Public Health,

Pharmacology, Airway Management, Respiration and Ventilation, Assessment, Medicine, Shock and Resuscitation, Trauma, Special Patient Populations, and EMS Operations. The program includes classroom, laboratory, simulation, hospital and field instruction.

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.

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.

Eligibility for Certification

- Successful completion of a state-approved EMS training course that meets or exceeds the National Emergency Medical Services Education Standards.
- Candidates must have completed the course within the past two years and the course Program Director must verify successful course completion on the National Registry website.
- Have a current CPR-BLS for "Healthcare Provider" or equivalent credential.
- Successful completion of the National Registry EMT cognitive (knowledge) examination and a state approved psychomotor (skills) examination.
- Passed portions of the cognitive and psychomotor exam remain valid for 24 months provided all other eligibility requirements are met.
- All National Registry fees are the responsibility of the student.
- For more information see NREMT.org

Eligibility for Certification with the Texas Department of State Health Services

Requirements for Initial Certification/Licensure

- At least 18 years old
- High school diploma or GED certificate
- Successful completion of a DSHS approved course EMS training course
- Submit a completed EMS personnel certification application and fee (paid for by student)
- Pass National Registry Exam
- Submit fingerprints for Texas/FBI criminal history check.

For more information see Certification/Licensure Information (https://www.dshs.texas.gov/dshs-ems-trauma-systems/ems-personnel-certification-licensure/initial-certification-licensure)

For questions regarding Eligibility, please contact the Texas Department of State Health Services at EMSCert@dshs.texas.gov; 512-834-6734 (phone).

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. EMT coursework completed via continuing education or a training site other than at Grayson College 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 and copy of current certification and/or licensure. Other documents may be required depending on individual circumstances. Paramedic courses are non-transferable and credit awards will not be granted.

EMS Advanced Placement and Experiential Learning Policy

The Grayson College EMS Program recognizes that some individuals applying to the Paramedic program may come with other medical licensure and/or experiences. However, advanced placement of students into the program or credit awarded for experiential learning is not permitted to maintain the continuity and consistency of the program. Therefore, all those seeking admittance into the program, including physicians, physician assistants, nurses, nurse

practitioners, or other allied health professionals, will apply through the standard application process and adhere to all attendance and course policies.

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 Paramedics who are competent in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains to enter the profession."

Committee on Accreditation of Educational Programs for the Emergency Medical Services Profession
(CoAEMSP)
8301 Lakeview Parkway, Suite 111-213
Rowlett, Texas
214.703.8445
CoAEMSP Website (Opens new window)

Commission on Accreditation of Allied Health Education Programs
Gina Scarboro, DBA, CCA
Executive Director
9355 - 113th Street North #7709
Seminole, FL 33775
727.210.2350 (phone)
727.210.2354 (fax)
Commission on Accreditation of Allied Health Education Programs Website (Opens new window)

AAS Degree Requirements

Associate of Applied Science - Paramedicine

The Associate of Applied Science degree in Paramedicine follows the National EMS Standards (2021) 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 80% 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 (AAS) 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.

AAS in Paramedicine Curriculum

Subject	Semester Hours
PSYC 2301 (General Psychology)	3
Language, Philosophy, and Culture/Creative Arts Core	3
SPCH 1311 (Introduction to Speech) or ENGL 1301 (Composition I)	3
SOCI 1301 (Introduction to Sociology)	3
MATH 1342 (Elementary Statistics) or MATH 1314 (College Algebra) or BIOL 2404 (Anatomy and Physiology)	3
EMSP 1501 (Emergency Medical Technician)	5
EMSP 2305 (Operations)	3
EMSP 1160 (Clinical)	1
EMSP 2137 (Emergency Procedures)	1
EMSP 1438 (Introduction to Advanced Practice)	4
EMSP 2206 (Emergency Pharmacology)	2
EMSP 2434 (Medical Emergencies)	4
EMSP 1356 (Patient Assessment and Airway Management)	3
EMSP 1161 (Clinical EMT)	1
EMSP 2237 (Emergency Procedures)	2
EMSP 2544 (Cardiology)	5

Subject	Semester Hours
EMSP 1455 (Trauma Management)	4
EMSP 2330 (Special Populations)	3
EMSP 2162 (Clinical-Emergency Medical Technology/Technician)	1
EMSP 2563 (Clinical-Emergency Medical Technology/Technician)	5
EMSP 2143 (Assessment Based Management)	1
Total:	**60**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Capstone Requirement: In addition to passing each EMSP course with a 80% or better to graduate, all students must pass the capstone course (EMSP 2143) and capstone exam at the established cut score for the exam to be eligible to test for the NREMT certificate exam.

Note: EMSP courses listed in each semester must be taken simultaneously and must be taken in the sequence identified in the degree plan.

Certificate and Award Requirements

EMT to Paramedicine - Level 2 Certificate

The **EMT to Paramedicine Level 2 Certificate** in Paramedicine follows the National EMS Education Standards (2021) 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 80% or better is necessary in each EMSP course to progress. Upon completion of this program, students will receive the **EMT to Paramedicine Level 2 Certificate** 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.

EMT to Paramedicine Level 2 Certificate Curriculum

Subject	Semester Hours
EMSP 2305 (EMS Operations)	3
EMSP 1501 (Emergency Medical Technician)	5
EMSP 1160 (Clinical)	1
EMSP 2137 (Emergency Procedures)	1
EMSP 1438 (Introduction to Advanced Practice)	4
EMSP 2206 (Emergency Pharmacology)	2
EMSP 2434 (Medical Emergencies)	4
EMSP 1356 (Patient Assessment and Airway Management)	3
EMSP 1161 Clinical-Emergency Medical Tech.)	1
EMSP 2237 (Emergency Procedures)	2
EMSP 2544 (Cardiology)	5
EMSP 2330 (Special Populations)	3
EMSP 1455 (Trauma Management)	4
EMSP 2162 (Clinical-Emergency Medical Tech.)	1
EMSP 2563 (Clinical-Emergency Medical Tech.)	5
EMSP 2143 (Assessment-Based Management)	1
Total:	**45**

Capstone Requirement: In addition to passing each EMSP course with a "C" or better to graduate, all students must pass the capstone course (EMSP 2143) and capstone exam at the established cut score for the exam to be eligible to test for the NREMT certificate exam.

Note: EMSP courses listed in each semester must be taken simultaneously and must be taken in the sequence identified in the degree plan.

Emergency Medical Technician - Occupational Skills Award

The **Emergency Medical Technician Occupational Skills Award** follows the National EMS Education Standards (2021) 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 80% or better is necessary in each EMSP course to progress. Following the completion of the 9 hours of EMSP coursework with a grade of C or better, students will be eligible to receive an Occupational Skills Award 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.

EMT Occupational Skills Award Curriculum

Subject	Semester Hours
EMSP 1501 (Emergency Medical Tech.)	5
EMSP 2305 (EMS Operations)	3
EMSP 1160 (Clinical Emergency Medical Tech.)	1
Total:	**9**

Capstone Requirement: In addition to passing each EMSP course with a "C" or better to graduate, all students must pass the course capstone exam at the established cut score for the exam to be eligible to test for the NREMT certificate exam.

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.

Kinesiology

Overview

The **Associate of Science (AS) Degree in Kinesiology** 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 consult 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.

Program Learning Outcomes

1. Analyze the cultural differences related to physical activity, fitness, and public health.
2. Apply contemporary knowledge, principles, and research related to appropriate biophysical, social and behavioral correlates of physical activity, fitness, and public health.
3. Identify the structure and function of the human body as they relate to physical activity, fitness, and public health.

AS Degree Requirements

Associate of Science - Kinesiology

AS in Kinesiology Curriculum

Subject	Semester Hours
Component Area Option Core	3
ENGL 1301 (Composition I)	3
American History Core	3
Mathematics Core	3
Kinesiology Elective	3
Communication Core	3
Life and Physical Science Core	3
Life and Physical Science Lab (CAO)	1
Creative Arts Core	3
Government/Political Science Core	3
Component Area Option	3
Language, Philosophy, Cultural Core	3
Life and Physical Science Core	3
Life and Physical Science Lab (CAO)	1
Kinesiology Elective	3
Kinesiology Elective	3
Component Area Option	1
Social and Behavioral Science Core	3
Government/Political Science Core	3
Kinesiology Elective	3
American History Core	3
Kinesiology Elective	3
Total:	**60**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

The Associate of Science (AS) Degree requires that TSI requirements are met.

Medical Laboratory Technology

Overview - Medical Laboratory Technology

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 this program, students receive an **Associate of Applied Science (AAS) Degree in Medical Laboratory Technology** and may be eligible to take national certification examinations, such as those administered by the American Society for Clinical Pathology (ASCP) Board of Certification or American Medical Technologists (AMT).

This program is accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS) and 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.

Program Learning Outcomes

1. Demonstrate entry-level knowledge and skills in all three phases of medical testing (pre-analytical, analytical, and post-analytical).
2. Work with others and apply good safety practices.
3. Interpret medical testing correctly and demonstrate proficiency in troubleshooting or resolving problems.
4. Understand and have good knowledge of laboratory accreditation.

Transfer of 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 MLT Program Director. Prerequisite corequisite general education courses will be accepted for transfer and application toward the certificate or degree if evaluated as equivalent to the required course at GC. MLT courses are accepted for transfer only with prior approval of the Program Director. Students wishing to transfer MLT courses should provide course syllabi from all courses for which credit is being requested.

Eligibility for Clinical Placement

Students who have been involved in the criminal justice system may not be eligible for clinical placement. If you feel this applies to you, please seek guidance from the program director or Health Science Success Coach prior to seeking admission. All students accepted into the MLT program must pass a criminal background check and periodic drug screens throughout enrollment.

Contact information regarding program approval and accreditation:

National Accrediting Agency for Clinical Laboratory Science (NAACLS)
5600 N. River Rd. Suite 720
Rosemont, IL 60018-5119
773.714.8880 (phone)
773.714.8886 (fax)
http://www.naacls.org

AAS Degree Requirements

Associate of Applied Science - Medical Laboratory Technology

AAS in Medical Laboratory Technology Curriculum

Subject	Semester Hours
BIOL 2404 (Survey of Anatomy & Physiology) or BIOL 2301 with 2101 (Anatomy & Physiology I)	4
MLAB 1201 (Introduction to Clinical Laboratory Science)	2
MLAB 1291 (Special Topics MLT)	2
MLAB 1335 (Immunology/Serology)	3
PLAB 1223 (Phlebotomy)	2

Subject	Semester Hours
PLAB 1160 (Phlebotomy Clinical)	1
ENGL 1301 (Composition I)	3
MLAB 2331 (Immunohematology)	3
MLAB 1315 (Hematology)	3
MLAB 1127 (Coagulation)	1
MLAB 1311 (Urinalysis and Body Fluids)	3
MLAB 1231 (Parasitology/Mycology)	2
Mathematics Core	3
Language, Philosophy, and Culture/Creative Arts Core	3
MLAB 2434 (Clinical Microbiology)	4
MLAB 2401 (Clinical Chemistry)	4
MLAB 2238 (Advanced Topics in MLT)	2
PSYC 2301 (General Psychology)	3
MLAB 2660 (Clinical II)	6
MLAB 2661 (Clinical III)	6
Total:	**60**

Capstone Requirement: All students must successfully complete MLAB 2660 and MLAB 2661 prior to graduation to fulfill the capstone requirement.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Pre-Health Science

Overview

The **Associate of Science Degree in Pre-Heath Science** allows students to focus on academic courses in preparation for transfer into a professional nursing program. The academic courses selected for this degree plan will allow a student to obtain the necessary prerequisites for the **Associate Degree Nursing Program** at Grayson College and meet the Texas Common Core requirements for transfer to a university.

Grayson College offers a RN to BSN program, and the Associate of Science (AS) Degree in Nursing program at Grayson College has articulation agreements with universities for transfer. Please speak with an academic advisor from the four-year institution of choice for specific course requirements for partnering universities when selecting electives.

Pre-Health Science AS Degree Requirements

Associate of Science - Pre-Health Science

AS in Pre-Health Science Curriculum

Subject	Semester Hours
BIOL 2301 (Anatomy & Physiology I)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
ENGL 1301 (English Composition I)	3
MATH 1314 (College Algebra) or MATH 1342 (Elementary Statistical Methods)	3
PSYC 2301 (General Psychology)	3
BIOL 2302 (Anatomy & Physiology II)	3
BIOL 2102 (Anatomy & Physiology II Lab)	1
BIOL 2320 (Microbiology)	3
BIOL 2120 (Microbiology Lab)	1
PSYC 2314 (Lifespan Growth & Development)	3
Language, Philosophy, and Culture Core	3
HIST 1301 (United States History I)	3
SPCH 1311 (Introduction to Speech Communication) or SPCH 1315 (Public Speaking) or SPCH 1321 (Business & Professional Communication)	3
ENGL 1302 (English Composition II)	3
GOVT 2305 (Federal Government)	3
Elective	3
GOVT 2306 (Texas Government)	3
Creative Arts Core	3
HIST 1302 (United States History II)	3
SOCI 1301 (Introduction to Sociology) or SOCI 1306 (Social Problems)	3
Elective	3
Elective	3
Total:	**60**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core an elective requirements.

Associate Degree Nursing

Overview

The Associate Degree Nursing (ADN) program provides a block nursing curriculum designed to help students acquire the knowledge, skills, and clinical experiences necessary to function as beginning practitioners of nursing. The curriculum includes classroom instruction, skills laboratory, simulation laboratory, and clinical learning experiences in a variety of healthcare settings.

Nursing courses may be scheduled in 16-week semesters or in shorter session formats, such as 8-week sessions, depending on the course design.

Students must satisfactorily complete all nursing courses within each semester concurrently in order to progress to the next semester of the program. All semesters must be taken in sequence. Acceptance into the ADN program is required prior to enrollment in RNSG courses.

Upon completion of the program of study, the student will have earned an **Associate of Applied Science (AAS) Degree in Nursing**. Graduates of the program may then apply to the Board of Nursing (BON) to take the licensure exam to become a registered nurse. 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 due to criminal background issues may petition the BON for a declaratory order. This should be done before entering the nursing program, since these eligibility issues also prevent the student from enrolling in clinical courses. Eligibility information is available on the program's website and the Texas Board of Nursing website.

Detailed information about the program is available upon request by emailing nursing@grayson.edu.

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.

Information sessions are available for interested candidates to attend. The schedule is posted on the Grayson website calendar and the program's website.

End-of-Program Student Learning Outcomes

Member of the Profession

1. Demonstrate professional attitudes and behaviors.
2. Demonstrate personal accountability and growth.
3. Advocate on behalf of patients, families, self, and the profession.

Provider of Patient-Centered Care

1. Use clinical decision making skills to provide comprehensive, safe, effective care for patients and families.
2. Develop, implement and evaluate teaching plans to meet the needs of patients and families.
3. Integrate a caring approach in the provision of care for diverse patients and families.
4. Perform skills safely and correctly in the provision of patient care.
5. Manage resources in the provision of safe, effective care for patients and families.

Patient Safety Advocate

1. Implement measures to promote a safe environment for patients, self, and others.
2. Formulate goals and outcomes to reduce risk using evidence-based guidelines.

Member of the Healthcare Team

1. Initiate and facilitate timely communication to meet the needs of patients and families.
2. Collaborate with patients, families, and health care team members in a timely manner to promote quality care.
3. Function as a member of the interdisciplinary health care team.

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 corequisite general education courses will be accepted for transfer and application toward the **Associate of Applied Science (AAS) Degree in Nursing** if the course is evaluated as equivalent to the required course at GC. The student is highly encouraged to meet with their Grayson Health Science Success Coach to start the evaluation process.

Nursing courses are accepted for transfer only with prior approval of the ADN Admissions Committee. Students wishing to transfer nursing courses should email nursing@grayson.edu. Copies of course syllabi from all previous nursing courses must be submitted to the ADN Program Coordinator 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. Students who were unsuccessful in another nursing program are not eligible to transfer into Grayson's ADN Nursing Program.

Program Approval and Accreditation

The Associate Degree Nursing Program at Grayson College at the Main Campus, located in Denison, Texas, is accredited by the:

Accreditation Commission for Education in Nursing (ACEN)
3390 Peachtree Road NE, Suite 1400
Atlanta, Georgia 30326
Phone: 404.975.5000

The most recent accreditation decision made by the ACEN Board of Commissioners for the Associate Degree Nursing Program is Continuing Accreditation.

View the public information disclosed by the ACEN regarding this program at https://www.acenursing.org/search-programs.

The Associate Degree Nursing Program at Grayson College is approved by the Texas Board of Nursing (BON).

Texas Board of Nursing
1801 Congress Avenue, Suite 10-200
Austin, Texas 78701
Phone: 512.305.7400
https://www.bon.state.tx.us

AAS Degree Requirements

Associate of Applied Science - Nursing - Generic Program

AAS in Nursing Prerequisites

Subject	Semester Hours
BIOL 2401 or BIOL 2301 with BIOL 2101 (Anatomy & Physiology I Lecture and Lab)	4
BIOL 2402 or BIOL 2302 and BIOL 2102 (Anatomy & Physiology II Lecture and Lab)	4
MATH 1314 (College Algebra) or MATH 1342 (Elementary Statistical Methods)	3
Prerequisites:	**11**

AAS in Nursing Curriculum

Subject	Semester Hours
ENGL 1301 (Composition 1)	3
BIOL 2420, or BIOL 2320 and BIOL 2120 (Microbiology Lecture and Lab)	4
PSYC 2301 (General Psychology)	3
PSYC 2314 (Lifespan, Growth and Development)	3
Language, Philosophy, and Culture/Creative Arts Core	3
RNSG 1215 (Health Assessment)	2
RNSG 1413 (Foundations for Nursing Practice)	4
RNSG 1105 (Nursing Skills 1)	1
RNSG 1160 (Clinical 1)	1
RNSG 1341 (Common Concepts of Adult Health)	3
RNSG 1260 (Clinical 2)	2
RNSG 1151 (Care of the Childbearing Family)	1
RNSG 2101 (Care of Children and Families)	1
RNSG 2260 (Clinical - Women's Health and Pediatrics)	2
RNSG 1343 (Complex Concepts of Adult Health)	3
RNSG 1261 (Clinical 3)	2

Subject	Semester Hours
RNSG 2213 (Mental Health Nursing)	2
RNSG 2261 (Clinical - Mental Health)	2
RNSG 2231 (Advanced Concepts of Adult Health)	2
RNSG 1262 (Clinical 4)	2
RNSG 2130 (Professional Nursing Review and Licensure Preparation)	1
RNSG 2262 (Clinical 5 - Role Transition)	2
Total:	**60**

*Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Bridge (LVN/LPN, Military Health Care Specialist, and Paramedic) to AAS in Nursing

Overview

The Bridge Program provides licensed vocational/practical nurses (LVN/LPN), military health care specialists, and paramedics an opportunity to transition into the Associate Degree Nursing (ADN) program with advanced placement. Students admitted through the Bridge Pathway receive seven semester credit hours for prior education, training, and licensure. This pathway supports career mobility for healthcare professionals seeking to advance to the registered nurse role.

The program is offered in traditional and accelerated formats. The traditional option includes one semester of transition coursework before students join the generic ADN cohort. The accelerated option is delivered in a hybrid format designed to accommodate individuals working 48/96 shift-based schedules. Program grading and progression policies are consistent for all ADN students.

Students starting Traditional Bridge in Fall 2026 will be under the 2025-2026 degree plan.

Detailed information about the program is available by sending an email request to nursing@grayson.edu and on the program's website.

The following general information about the Bridge program is current at the time of printing, but all information is subject to change without notice or obligation.

Information sessions are held monthly for interested candidates to attend. The schedule is posted on the Grayson website calendar.

AAS Bridge Program Entry Requirements

Associate of Applied Science - Nursing - Bridge Program

AAS Bridge Program Prerequisites

Subject	Semester Hours
BIOL 2401 or BIOL 2301 and BIOL 2101 (Anatomy & Physiology I Lecture and Lab)	4
BIOL 2420 or BIOL 2320 and BIOL 2120 (Microbiology for Non-Science Majors Lecture and Lab)	4
PSYC 2301 (General Psychology)	3
BIOL 2402 or BIOL 2302 with BIOL 2102 (Anatomy & Physiology II Lecture and Lab)	4
PSYC 2314 (Lifespan, Growth, and Development)	3
ENGL 1301 (Composition I)	3
MATH 1314 College Algebra or MATH 1342 (Elementary Statistical Methods)	3
prerequisites	**24**

AAS Bridge Program Co-Requisites

Subject	Semester Hours
Language, Philosophy, and Culture/Creative Arts Core	3
Corequisites:	**3**

AAS Bridge Program Courses

Subject	Semester Hours
RNSG 1417 (Concepts of Professional Nursing Practice for Articulating Students)	4
RNSG 1140 (Professional Nursing Skills for Articulating Students)	1

Subject	Semester Hours
RNSG 1162 (Clinical 1 - Articulating Students)	1
RNSG 1151 (Care of the Childbearing Family)	1
RNSG 2101 (Care of Children and Families)	1
RNSG 2260 (Clinical - Women's Health and Pediatrics)	2
RNSG 1343 (Complex Concepts of Adult Health)	3
RNSG 1261 (Clinical 3)	2
RNSG 2213 (Mental Health Nursing)	2
RNSG 2261 (Clinical - Mental Health)	2
RNSG 2231 (Advanced Concepts of Adult Health)	2
RNSG 1262 (Clinical 4)	2
RNSG 2130 (Professional Nursing Review and Licensure Preparation)	1
RNSG 2262 (Clinical 5 - Role Transition)	2
Course Hours Total:	**26**

Credit Award for LVN/LPN License, Paramedic License, or National Registry, and/or Military Health Care Specialist

Subject	Semester Hours
Credit Award for License	7

Total Credits for AAS

Subject	Semester Hours
Total Credits	**60**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Radiologic Technology

Overview

The Radiologic Technology 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 earns an **Associate of Applied Science (AAS) Degree in Radiologic Technology** and 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 apply 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.

Program Learning Outcomes

1. Students will demonstrate clinical competence.
2. Students will demonstrate critical thinking skills.
3. Students will demonstrate an understanding of professionalism.
4. Students will demonstrate effective communication skills in the medical environment.

Transfer of College Coursework

Students who desire admission via transfer to GC must adhere to the 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. Prerequisite and corequisite general education courses will be accepted for transfer and application toward the Associate of Applied Science Degree in Radiologic Technology if the course is evaluated as equivalent to the required course at GC. Courses are accepted for transfer only with prior approval of the Radiology Program Director. Copies of course syllabi from all previous Radiology courses must be submitted to the Radiology Program Director to determine eligibility for transfer. Applicants must also provide a letter from the previous program director stating that the applicant is currently passing and in good standing.

Eligibility for Licensure

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 program 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.

AAS Degree Requirements

Associate of Applied Science Degree - Radiologic Technology

AAS in Radiologic Technology - Prerequisites

Subject	Semester Hours
BIOL 2301 (Anatomy & Physiology I)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
PSYC 2301 (General Psychology)	3
BIOL 2302 (Anatomy & Physiology II)	3
BIOL 2102 (Anatomy & Physiology II Lab)	1
ENGL 1301 (Composition I)	3
HUMA 1301 (Introduction to Humanities)	3
Total:	**17**

AAS in Radiologic Technology Curriculum

Subject	Semester Hours
RADR 1309 (Introduction to Radiography and Patient Care)	3
RADR 1311 (Basic Radiographic Procedures)	3
RADR 1313 (Principles of Radiographic Imaging I)	3
RADR 2301 (Intermediate Radiographic Procedures)	3
RADR 2313 (Radiation Biology and Protection)	3
RADR 1361 (Clinical I)	3
RADR 1362 (Clinical II)	3
RADR 2217 (Radiographic Pathology)	2
RADR 2305 (Principles of Radiographic Imaging II)	3
RADR 2363 (Clinical III)	3
RADR 2309 (Radiographic Imaging Equipment)	3
RADR 2333 (Advanced Medical Imaging)	3
RADR 2335 (Radiologic Technology Seminar)	3
RADR 2331 (Advanced Radiographic Procedures)	3
RADR 2367 (Clinical IV)	3
RADR 1391 (Special Topics in Medical Radiologic Technology)	3
Total:	**47**

The program totals 64 Credit Hours

Capstone Requirement: All students must complete RADR 2335 (the capstone requirement) prior to graduation.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Certificates

Computed Tomography - Advanced Technical Certificate

Advanced Technical Certificate Curriculum

Subject	Semester Hours
CTMT 1291 - Special Topics in Computed Tomography	2
CTMT 2336 - Computed Tomography Equipment and Methodology	3
RADR 2340 - Sectional Anatomy for Medical Imaging	3
CTMT 2460 - Clinical I	4
CTMT 2461 - Clinical II	4
Total:	**16**

RN to BSN

Overview

The RN to BSN program is a post-licensure Baccalaureate program designed to enhance the knowledge of a Registered Nurse. The program is built to serve the workforce needs of the community and align with the current mission of Grayson College. It aims to prepare graduates to advance their careers in professional nursing across a variety of health-related settings. A central focus of the program is on the continued development of an RN as a member of the profession, provider of patient-centered care, patient safety advocate, and member of the healthcare team.

Interested students may request more information by emailing RN-BSN@grayson.edu or contacting their Health Science Success Coach. Information is also available on the program's website.

The Baccalaureate Nursing Program at Grayson College at the Main Campus located in Denison, Texas is accredited by the:

Accreditation Commission for Education in Nursing (ACEN)
3390 Peachtree Road NE, Suite 1400
Atlanta, GA 30326
Phone: 404.975.5000

The most recent accreditation decision made by the ACEN Board of Commissioners for the Baccalaureate Nursing Program is Continuing Accreditation.

View the public information disclosed by the ACEN regarding this program at https://www.acenursing.org/search-programs

The RN to BSN Program at Grayson College is approved by the Texas Board of Nursing (BON):
Texas Board of Nursing
1801 Congress Avenue, Suite 10-200
Austin, Texas 78701
Phone: 512.305.7400
Fax: 512.305.7401
https://www.bon.state.tx.us

End-of-Program Student Learning Outcomes:

Member of the Profession:

- Demonstrate responsibility and accountability in the quality of care for patients, families, populations and communities.
- Promote the profession of nursing through advocacy and leadership activities.

Provider of Patient-Centered Care

- Incorporate theoretical knowledge and evidence-based research findings in the coordination of comprehensive care for patients, families, populations, and communities.
- Synthesize knowledge from comprehensive health assessment data and evidence-based research to provide care for culturally, ethnically, spiritually, and socially diverse patients, families, populations, and communities.
- Develop, implement, and evaluate teaching plans for patients, families, populations, and communities to address health maintenance, health promotion, and risk reduction.
- Utilize clinical reasoning, knowledge, evidence-based practice, theoretical foundations, and research findings as a basis for decision-making and comprehensive patient care.

Patient Safety Advocate

- Develop goals and outcomes utilizing theoretical knowledge and analysis, research, and evidence-based data to reduce patient and community risks.
- Develop and implement measures to promote a quality and safe environment for patients, self, families, communities, and populations.

Member of the Healthcare Team

- Utilize leadership and management principles to assign and/or delegate nursing tasks to other members of the healthcare team in relation to the patient and organizational needs
- Integrate referral needs, cost considerations, confidentiality, the efficiency of care, and the continuum of care in a timely manner as it relates to patients, families, communities, populations, and the healthcare organization.

Admission Requirements:

Requirements for admission to the RN to BSN program are as follows:

1. Completion of program application and submission of all college transcripts
2. Graduate of a national accredited nursing program or Texas BON approved program
3. Cumulative college GPA of 2.5
4. Proof of unencumbered licensure as a Registered Nurse

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 RN to BSN program. Prerequisite and corequisite general education courses will be accepted for transfer and application toward the program if the course is evaluated as equivalent to the required course at GC. Nursing courses are accepted for transfer only with prior approval. Students wishing to transfer nursing courses should email rn-bsn@grayson.edu for more information. Copies of course syllabi from all previous nursing courses must be submitted to the Program Coordinator to determine eligibility for transfer.

RN to BSN Degree Requirements

Bachelor of Science - Nursing

BS in Nursing Curriculum

Subject	Semester Hours
BIOL 2301 (Anatomy & Physiology I)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
ENGL 1301 (Composition I)	3
MATH 1314 (College Algebra) or MATH 1342 (Elementary Statistical Methods)	3
PSYC 2301 (General Psychology)	3
BIOL 2302 (Anatomy & Physiology II)	3
BIOL 2102 (Anatomy & Physiology II Lab)	1
BIOL 2320 (Microbiology Non-Science)	3
BIOL 2120 (Microbiology Non-Science Lab)	1
PSYC 2314 (Lifespan Growth & Development)	3
Language, Philosophy, and Culture Core	3
HIST 1301 (United States History I)	3
SPCH 1311 (Introduction to Speech Communication) or SPCH 1315 (Public Speaking) or SPCH 1321 (Business & Professional Communication)	3
ENGL 1302 (Composition II)	3
GOVT 2305 (Federal Government)	3
GOVT 2306 (Texas Government)	3
Creative Arts Core	3
HIST 1302 (United States History II)	3
SOCI 1301 (Introduction to Sociology) or SOCI 1306 (Social Problems)	3
NURS 3324 (Nursing Research & Evidence-Based Practice) (Must take First Term))	3
NURS 3301 Health Assessment	3
NURS 3313 Pathophysiology	3
NURS 4326 (Legal & Ethical Considerations in Nursing)	3
NURS 3244 (Issues & Trends in Nursing)	2
NURS 4355 (Community and Public Health)	3
NURS 4341 (Health Promotion Across the Lifespan)	3
NURS 4160 Community and Public Health Clinical	1
NURS 4314 (Nursing Theory)	3

Subject	Semester Hours
NURS 4457 (Leadership & Management	4
NURS 4232 (Gerontological Nursing)	2
NURS 4454 (Professional Project - Must complete all other courses first or concurrently)	4
Elective	3
Credit award for licensure as a Registered Nurse	32
total:	**120**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Surgical Technology

Overview

The Surgical Technology Program at Grayson College is an **Associates of Applied Science (AAS) Degree in Surgical Technology.**

The **Associates of Applied Science (AAS) Degree in Surgical Technology** is designed to prepare the student to function effectively as an integral part of the operating room team. The AAS degree consists of in-person lectures, in-person lab, mock surgeries, and clinicals within a four-county radius in addition to the academic coursework. The Surgical Technology Program is a year program that begins in the summer. The pre-requisite academic coursework must be taken before the surgical technology coursework begins. Grayson College's Surgical Technology Program is Commission on Accreditation of Allied Health Education Programs (CAAHEP) accredited with National Board of Surgical Technology and Surgical Assisting (NBSTSA)

Program Learning Outcomes

- To prepare students to complete the Surgical Technologist National Certifying Examination conducted by the National Board of Surgical Technology and Surgical Assisting.
- To prepare competent entry-level surgical technologists in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.
- To provide the community with professional, competent, desirable employees and entry-level Surgical Technologists.
- To prepare students to function as a part of the healthcare profession.
- To prepare students to function professionally, caring, and ethically when providing patient care.

Admission and Program Requirements

- High School Diploma/GED
- Admitted to Grayson College
- Attendance of information session
- 2.0 GPA in all prerequisite courses
- All science coursework completed within 10 years
- Eligible for Math 1310/ taken college algebra within 10 years
- Prerequisites of Anatomy and Physiology 1, Anatomy and Physiology 2, Micribiology and Lab, and Math.
- Drug Screening (SurScan)
- Immunizations (SurScan)

AAS Degree Requirements

Associate of Applied Science - Surgical Technology

AAS in Surgical Technology Curriculum

Subject	Semester Hours
ENGL 1301 (Composition I)	3
MATH 1314 (College Algebra) or MATH 1342 (Elementary Statistical Methods)	3
PSYC 2301 (General Psychology) or PSYC 2314 (Lifespan Growth and Development)	3
BIOL 2301 (Anatomy & Physiology I)	3
BIOL 2101 (Anatomy & Physiology I Lab)	1
Communications Core	3
BIOL 2302 (Anatomy & Physiology 2)	3
BIOL 2102 (Anatomy & Physiology 2 Lab)	1
Language, Philosophy, and Culture/Creative Arts Core	3
BIOL 2320 (Microbiology)	3
BIOL 2120 (Microbiology Lab)	1
HPRS 2302 (Medical Terminology)	3
SRGT 1405 (Intro to Surgical Technology)	4
SRGT 1409 (Fundamentals of Perioperative Concepts and Techniques)	4
SRGT 1361 (Clinical-Surgical Technology/Technologist)	3
SRGT 1441 (Surgical Procedures I)	4

Subject	Semester Hours
SRGT 1442 (Surgical Procedures II)	4
SRGT 1660 (Clinical-Surgical Technology/Technologist)	6
SRGT 2230 (Professional Readiness)	2
SRGT 2360 (Clinical-Surgical Technology/Technologist)	3
Total:	**60**

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

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Vocational Nursing

Overview - Vocational Nursing

The Grayson College Vocational Nursing program requires 42 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 **Vocational Nursing Certificate**. Graduates must subsequently apply to take the NCLEX-PN exam. Upon successful completion, 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 can be obtained by sending an email request to lvn@grayson.edu or visiting the college's website.

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.

Program Learning Outcomes

Member of the Profession

1. Demonstrate professional attitudes and behaviors
2. Advocate on behalf of patients, families, self, and the profession
3. Demonstrate responsibility and accountability for the quality of nursing care provided to patients and their families

Provider of Patient-Centered Care

1. Use clinical decision-making skills appropriate to the level of a Vocational Nurse to provide safe, effective care for patients and families
2. Provide safe, compassionate, basic nursing care to assigned patients with predictable healthcare needs through a supervised, direct scope of practice
3. Implement teaching plans for patients and their families with common health problems and well-defined health learning needs
4. Manage resources in the provision of safe, effective care for patients and families
5. Assist in developing and implementing a plan of care to meet the needs of diverse patients and families

Patient Safety Advocate

1. Implement measures to promote quality and a safe environment for patients, self, and others
2. Assist in the formation of goals and outcomes to reduce patient risks

Member of the Healthcare Team

1. Collaborate with patients, their families, and the interdisciplinary healthcare team in a timely manner to assist in the planning, delivery, and coordination of patient-centered care to assigned patients
2. Identify patient needs for referral to resources that facilitate continuity of care and ensure confidentiality
3. Collaborate with members of the interdisciplinary healthcare team to promote and maintain optimal health status of patients and their families

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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 Vocational Nursing program. Prerequisite and corequisite general education courses will be accepted for transfer and application toward the Vocational Nursing program if the course is evaluated as equivalent to the required course at GC. Nursing courses are accepted for transfer only with prior approval. Students wishing to transfer nursing courses should request an Information Packet. Copies of course syllabi from all previous nursing courses must be submitted to the LVN 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.

Eligibility for Licensure

To qualify to take the licensing exam, students must meet eligibility requirements stipulated by the Texas Board of Nursing. Applicants who have reason to believe they may be ineligible to take the licensing exam due to criminal background issues may petition the BON for a declaratory order. This should be done prior to entering the LVN program since these eligibility issues also prevent the student from enrolling in the clinical courses. Information about eligibility is available in the VN Information packet and on the website for the Texas Board of Nursing.

Contact information regarding program approval:

Texas Board of Nursing
1801 Congress Avenue, Suite 10-200
Austin, TX 78701
Phone: 512.305.7400
http://www.bon.state.tx.us/

Certificate Requirements

Vocational Nursing - Certificate

Vocational Nursing Certificate Curriculum

Subject	Semester Hours
BIOL 2404 (Anatomy & Physiology) or BIOL 2301/BIOL 2101 (Anatomy & Physiology Lecture and Lab I) and BIOL 2302/BIOL 2102 (Anatomy & Physiology Lecture and Lab II)	4
VNSG 1304 (Foundations of Nursing)	3
VNSG 1502 (Applied Nursing Skills I)	5
VNSG 1226 (Gerontology)	2
VNSG 1360 (Clinical-LVN Training I)	3
VNSG 1509 (Nursing in Health & Illness II)	5
VNSG 1230 (Maternal-Neonatal Nursing)	2
VNSG 1238 (Mental Illness)	2
VNSG 1361 (Clinical II)	3
VNSG 1219 (Leadership and Professional Development)	2
VNSG 1162 (Clinical-LVN Training II)	1
VNSG 2510 (Nursing in Health & Illness III)	5
VNSG 1262 (Clinical-LVN Training IV)	2
VNSG 1334 (Pediatrics)	3
Total:	**42**

The Semester Credit Hours are based on a 16-week semester. The Grayson College Vocational Nursing Program adapts the hours to accommodate two 16-week semesters, one 3-week minimester, and one 8-week summer semester.

Industrial Technologies

Advanced Manufacturing

Overview

Advanced manufacturing technology is used in automated fabrication machinery that require skilled technicians to design, program, service and repair, including a focus on machining.

Our hands-on Advanced Manufacturing programs prepare graduates to go to work as an entry-level service technician, diagnosing, servicing and repairing automated systems. This program offers an **Associate of Applied Science (AAS) Degree in Advanced Manufacturing Technology**, an **Advanced Manufacturing Technician Certificate**, a **Basic Manufacturing Technician Certificate**, a **Mechatronics Technician Certificate**, and an **Advanced Manufacturing Level 1 Machining Certificate**. Advanced manufacturing skills are also an excellent supplement to related areas such as electronics and engineering.

Course Requirements

Grayson College Admission policies require a high school diploma or equivalent. The Associate of Applied Science (AAS) Degree requires TSI completion. The certificates are TSI exempt.

AAS Degree Requirements

Associate of Applied Science - Advanced Manufacturing Technology

AAS in Advanced Manufacturing Curriculum

Subject	Semester Hours
MATH 1332 (Quantitative Reasoning)	3
CAO Core (Preferred: EDUC 1300 Learning Frameworks)	3
Social and Behavioral Science Core Option	3
TECM 1403 (Technical Calculations)	4
ENGL 1301 (Composition I)	3
MCHN 1302 (Print Reading for Machine Trade)	3
Language, Philosophy, Culture and Creative Arts Core Option	3
OSHT 1301 (Introduction to Safety and Health)	3
MCHN 1320 (Precision Tools and Measurements)	3
MCHN 1438 (Basic Machine Shop I)	4
DFTG 1433 (Mechanical Drafting or Elective) or Elective	3
PTAC 2346 (Process Troubleshooting)	3
IMNT 1419 (Manufacturing Processes)	4
MCHN 1454 (Intermediate Machining II) or Elective	4
MCHN 1426 (Intro to Computer Aided Manufacturing) or Elective	3
MCHN 1371 (Manufacturing Skills Standards)	3
INMT 2388 (Internship-Manufacturing Technology/Technician) or Elective	3
Elective	3
Total:	**60**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Electives

- BUSG 2309
- SPCH 1321
- ITSW 1304
- ITSC 1309
- DFTG 1445
- ELPT 2319
- PTAC 1408

- RBTC 1355
- HYDR 1445
- INMT 1417
- ELPT 1411
- CETT 1403
- ELPT 1441
- DFTG 1433
- MCHN 1454
- MCHN 1426
- INMT 2388

Certificate Requirements

Advanced Manufacturing Technician - Certificate

Advanced Manufacturing Technician Certificate Curriculum

Subject	Semester Hours
TECM 1403 (Technical Calculations)	4
MCHN 1302 (Print Reading for Machining Trades)	3
OSHT 1301 (Introduction to Safety and Health)	4
MCHN 1320 (Precision Tools and Measurements)	3
MCHN 1438 (Basic Machine Shop I)	4
DFTG 1433 (Mechanical Drafting) or Elective	4
PTAC 2346 (Process Troubleshooting)	3
INMT 1419 (Manufacturing Processes)	4
MCHN 1454 (Intermediate Machining II) or Elective	4
MCHN 1426 (Computer Aided Manufacturing) or Elective	3
MCHN 1371 (MSSC Manufacturing Processes and Production Certification)	3
INMT 2388 (Internship Manufacturing Tech) or Elective	3
Total:	**42**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Electives

Elective options include:

- BUSG 2309
- ITSW 1304
- ITSC 1309
- DFTG 1445
- ELPT 2319
- PTAC 1408
- RBTC 1355
- HYDR 1445
- INMT 1417
- CETT 1403
- ELPT 1441
- DFTG 1433
- MCHN 1454
- MCHN 1426
- INMT 2388
- ELPT 1411

Basic Manufacturing Technician - Certificate

Basic Manufacturing Technician Certificate Curriculum

Subject	Semester Hours
TECM 1403 (Technical Calculations)	4

Subject	Semester Hours
MCHN 1302 (Print Reading for Machining Trades)	3
OSHT 1301 (Introduction to Safety and Health) (Corequisite class)	3
MCHN 1320 (Precision Tools & Measure) (Corequisite class)	3
MCHN 1438 (Basic Shop I) (Corequisite class)	4
PTAC 2346 (Process Troubleshooting)	3
INMT 1419 (Manufacturing Processes)	4
Total:	**24**

Mechatronics Technician - Certificate

Mechatronics Technician Certificate Curriculum

Subject	Semester Hours
TECM 1403 (Technical Calculations)	4
ELPT 1411 (Basic Electrical Theory)	4
ELPT 1441 (Motor Control)	4
ELPT 2319 (Programmable Logic Controllers I)	3
HYDR 1445 (Hydraulics and Pneumatics)	4
Elective	3
Elective	3
Total:	**25**

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.

Electives

Elective options include:

- BUSG 2309
- ITSW 1304
- ITSC 1309
- ELPT 2319
- RBTC 1355
- INMT 2388

Advanced Manufacturing Level I Machining - Certificate

Advanced Manufacturing Level I Machining Certificate Curriculum

Subject	Semester Hours
MCHN 1408 (Basic Lathe Operations)	4
MCHN 1413 (Basic Milling Operations)	4
MCHN 1458 (Intermediate Lathe Operations)	4
MCHN 2402 (Intermediate Milling Operations)	4
MCHN 2433 (Advanced Lathe Operations)	4
MCHN 2437 (Advanced Milling Operations)	4
Total:	**24**

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.

Electrical Engineering Technology

Overview

The **Associate of Applied Science (AAS) Degree in Electrical Engineering Technology** prepares students for technical positions found within the industrial manufacturing industry, including the semiconductor industry. Topics covered in this program include electronics principles, circuit troubleshooting and design, PLC, motor controls, hydraulics and pneumatics, and industrial automation.

Our hands-on EET programs prepare graduates to go to work as entry-level service technicians, diagnosing, servicing and repairing electrical/automated systems. Grayson College's courses teach the skills recommended by area employers who work in the industry. The EET program is offered at the Grayson College South Campus and now the main Denison campus, both labs of which are equipped with the latest technology.

Programs of study include:·

- **Electrical Engineering Technology Automation Certificate (27 hours)**
- **Electrical Engineering Technology Electronics Certificate (23 hours)**
- **Electrical Engineering Technology Occupational Skills Award (12 hours)**
- **Associate of Applied Science (AAS) Degree in Electrical Engineering Technology (60 hours)**

Course Requirements

Grayson College requires a high school diploma or equivalent. The Associate of Applied Science (AAS) Degree requires that TSI requirements are met. Interested students are strongly encouraged to visit get advised by a Success Coach or Faculty Mentor advisor and follow a degree plan, as some courses are not available every semester.

Capstone Experience

To earn each certificate in this program, all students must successfully complete a comprehensive capstone experience through INMT 1417.

Program Prerequisites

It is recommended that students seeking a certificate complete a math bootcamp or refresher course (TECM 1403) with our Continuing Education department or meet TSI requirements in Math due to the demanding technical calculations involved in these courses. Most course offerings in this program are cohort based and fast tracked. Please talk with a success coach for guidance on the best cohort options for your schedule.

AAS Degree Requirements

Associate of Applied Science - Electrical Engineering Technology

AAS in Electrical Engineering Technology Curriculum

Subject	Semester Hours
CETT 1403 (DC Circuits) or ELPT 1411 (Electrical Theory)	4
CETT 1405 (AC Circuits)	4
CETT 1429 (Solid State Devices)	4
CETT 1425 (Digital Fundamentals)	4
ENGL 1301 (Composition I)	3
MATH 1314 (College Algebra)	3
ELPT 1441 (Motor Control)	4
ELPT 2319 (Programmable Logic Controllers)	3
Language, Philosophy, and Culture/Creative Arts Core	3
Electronics Electives	3
Automation Electives	4
HYDR 1445 (Hydraulics and Pneumatics)	4
SPCH 1311 (Introduction to Speech) or SPCH 1315 (Public Speaking) or SPCH 1321 (Business and Professional Communication)	3
Electronics Electives	3
RBTC 1343 (Robotics)	3

Subject	Semester Hours
INMT 1417 (Industrial Automation)	4
Social Science Core	3
EECT 1104 (Electronic Soldering)	1
Total:	**60**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

DC Circuits is a prerequisite for all courses in this program with the exception of HYDR 1445, MCHN 1438, PTAC 1408, and DFTG 1445.

Electives

- Electronics Electives
  - RBTC 1355 Sensors
  - SMFT 2335 Vacuum Technology
  - SMFT 1343 Semiconductor Manufacturing Technology
  - PTAC 1332 Process Instrumentation I
  - CETT 1331 Programming for Discrete Electronic Devices
  - PTAC 2346 Process Troubleshooting
  - PTAC 1332 Process Instrumentation I
  - FCEL 1305 Fuel Cell and Alternative/Renewable Energy
  - CETT 1441 Solid State Circuits
- Automation Electives
  - MCHN 1438 Basic Machine Shop
  - PTAC 1408 Safety, Health, and Environment I
  - ELMT 1402 Solar Photovoltaic Systems
  - DFTG 1445 Parametric Modeling and Design
  - TECM 1403 Technical Calculations

Certificate Requirements

Electrical Engineering Technology - Electronics Level 1 Certificate

Electrical Engineering Technology Electronics Level 1 Certificate Curriculum

Subject	Semester Hours
CETT 1403 (DC Circuits)	4
CETT 1405 (AC Circuits)	4
CETT 1429 (Solid State Devices)	4
CETT 1425 (Digital Fundamentals)	4
Electronics Elective	3
Electronics Elective	3
EECT 1104 (Electronic Soldering)	1
Total:	**23**

Electronics Electives

- RBTC 1355 Sensors
- SMFT 2335 Vacuum Technology
- SMFT 1343 Semiconductor Manufacturing Technology
- PTAC 1332 Process Instrumentation I
- CETT 1331 Programming for Discrete Electronic Devices
- PTAC 2346 Process Troubleshooting
- FCEL 1305 Fuel Cell and Alternative Renewable Energy
- CETT 1441 Solid State Circuits

Electrical Engineering Technology Automation Level 1 Certificate

Electrical Engineering Technology Automation Level 1 Certificate Curriculum

Subject	Semester Hours
CETT 1403 (DC Circuits) or ELPT 1411 (Basic Electrical Theory)	4

Subject	Semester Hours
ELPT 1441 (Motor Control)	4
ELPT 2319 (Programmable Logic Controllers)	3
Electrical Engineering Automation Elective	4
HYDR 1445 Hydraulics & Pneumatics	4
RBTC 1343 (Robotics)	3
INMT 1417 (Industrial Automation)	4
EECT 1104 (Electronic Soldering)	1
Total:	**27**

Automation Electives

- MCHN 1438 Basic Machine Shop
- PTAC 1408 Safety, Health, and Environment I
- ELMT 1402 Solar Photovoltaic Systems
- DFTG 1445 Parametric Modeling and Design
- TECM 1403 Technical Calculations

Occupational Skills Award Requirements

Electrical Engineering Technology - Occupational Skill Award

Electrical Engineering Technology Occupational Skill Award Curriculum

Subject	Semester Hours
CETT 1403 (DC Circuits)	4
CETT 1405 (AC Circuits)	4
CETT 1441 (Solid State Circuits)	4
Total:	**12**

Automation Technician 1 (Foundations Skills) - Career Ready Occupational Skill Award

Automation Technician 1 (Foundations Skills) - Career Ready OSA Sequence

Subject	Semester Hours
ELPT 1041 (Motor Control)	80
ELPT 2019 (Programmable Logic Controllers)	64
HYDR 1045 (Hydraulics and Pneumatics)	96
Total:	**240**

Automation Technician 2 (Skills Applications) - Career Ready Occupational Skill Award

Automation Technician 2 (Skills Applications) - Career Ready OSA Sequence

Subject	Semester Hours
RBTC 1043 (Robotics)	64
INMT 1017 (Industrial Automation)	96
MCHN 1038 (Basic Machine Shop)	128
Total:	**288**

Electronics Technician 1 (Foundations Skills) - Career Ready Occupational Skill Award

Electronics Technician 1 (Foundations Skills) - Career Ready OSA Sequence

Subject	Semester Hours
CETT 1003 (DC Circuits)	96
CETT 1005 (AC Circuits)	96
CETT 1041 (Solid State Circuits)	96

Subject	Semester Hours
Total:	**288**

Electronics Technician 2 (Skills Application) - Career Ready Occupational Skill Award

Electronics Technician 1 (Foundations Skills) - Career Ready OSA Sequence

Subject	Semester Hours
CETT 1025 (Digital Fundamentals)	96
SMFT 1071 (Vacuum Technology)	64
SMFT 1071 (Semiconductor Manufacturing Technology)	64
EECT 1004 (Electronic Soldering)	32
Total:	**256**

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 and 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.

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.

The Grayson College Electrical Technology program is located on the South Campus in Van Alstyne and offers two levels of certificates leading to an Associate of Applied Science (AAS) degree: a **Residential Electrical Technology Certificate**, a **Commercial Electrical Technology Certificate**, and an **Associate of Applied Science (AAS) Degree in Electrical Technology**

Course Requirements

The Associate of Applied Science (AAS) Degree and the Certificate require a high school diploma or equivalent. The Associate of Applied Science Degree (AAS) requires TSI requirements have been met.

Capstone Experience

Graduation with a Certificate or an Associate of Applied Science Degree in Electrical Technology requires successful completion of a capstone course.

AAS Degree Requirements

Associate of Applied Science - Electrical Technology

AAS in Electrical Technology Curriculum

Subject	Semester Hours
ELPT 1411 (Basic Electrical Theory) or CETT 1403 (DC Circuits)	4
ELPT 1221 (Introduction to Electrical Safety and Tools)	2
ELPT 1325 (National Electric Code I)	3
Mathematics Core	3
Electrical Elective	3
ENGL 1301 (Composition I)	3
DFTG 1425 (Blueprint Reading and Sketching) or TECM 1403 (Technical Calculations)	4
ELPT 1291 (Special Topics in Electrical and Power Transmission Installer, General)	2
Social & Behavioral Science Core	3
ELPT 2337 (Electrical Planning and Estimating)	3
ELPT 1329 (Residential Wiring)	3
ELPT 1345 (Commercial Wiring)	3
ELPT 1441 (Motor Control)	4
ELTN 1291 (Special Topics in Electrician)	2
ELPT 2319 (Programmable Logic Controllers I)	3
ELPT 2343 (Electrical Systems Design)	3
ELPT 2305 (Motors and Transformers)	3
ELTN 1343 (Electrical Troubleshooting)	3
Lang, Phil, Culture/Creative Arts Core	3
SPCH 1311 (Introduction to Speech Communication)	3
Total:	**60**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Electrical Electives

- ELPT 1380 Cooperative in Electrical and Power Transmissions
- ELPT 1364 Practicum in Electrical and Power Transmission
- ELPT 1311 Solar Fundamentals
- FCEL 1305 Fuel Cell and Alternative/Renewable Energy

Certificate Requirements

Residential Electrical Technology - Certificate

Residential Electrical Technology Certificate Curriculum

Subject	Semester Hours
ELPT 1411 (Basic Electrical Theory) or CETT 1403 (DC Circuits)	4
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 1325 (National Electric Code I)	3
DFTG 1425 (Blueprint Reading and Sketching) or TECM 1403 (Technical Calculations)	4
ELTN 1291 (Special Topics in Electrician and Power Transmission)	2
ELPT 2337 (Electrical Planning and Estimating)	3
ELPT 1329 (Residential Wiring)	3
ELPT 2305 (Motors and Transformers)	3
Electrical Elective	3
total:	**27**

Electives

- ELPT 1380 Cooperative in Electrical and Power Transmissions
- ELPT 1364 Practicum in Electrical and Power Transmission
- ELPT 1311 Solar Fundamentals
- FCEL 1305 Fuel Cell and Alternative/Renewable Energy

Commercial Electrical Technology - Certificate

Commercial Electrical Technology Certificate Curriculum

Subject	Semester Hours
ELPT 1411 (Basic Electrical Theory) or CETT 1403 (DC Circuits)	4
ELPT 1221 (Intro to Electrical Safety and Tools)	2
ELPT 1325 (National Electric Code I)	3
DFTG 1425 (Blueprint Reading and Sketching) or TECM 1403 (Technical Calculations)	4
ELTN 1291 (Special Topics in Electrician and Power Transmission	2
ELPT 2337 (Electrical Planning and Estimating)	3
ELPT 1329 (Residential Wiring)	3
ELPT 1345 (Commercial Wiring)	3
ELPT 1441 (Motor Control)	4
ELPT 1291 (Special Topics in Electrical and Power Transmission Installer)	2
ELPT 2319 (Programmable Logic Controllers I)	3
ELPT 2343 (Electrical System Design)	3
ELPT 2305 (Motors and Transformers)	3
ELTN 1343 (Electrical Troubleshooting)	3
FCEL 1305 (Fuel Cell and Alternative/Renewable Energy)	3
total:	**45**

Electives

- ELPT 1380 Cooperative in Electrical and Power Transmissions
- ELPT 1364 Practicum in Electrical and Power Transmission
- ELPT 1311 Solar Fundamentals
- FCEL 1305 Fuel Cell and Alternative/Renewable Energy

Heating, Air Conditioning & Refrigeration Technology (HART)

Overview

Grayson College's Heating, Air Conditioning and Refrigeration Technology (HART) program offers three levels of training and skills. Many students start with the **HART Technician Apprentice Certificate**, then build on those skills with the **HART Technician Certificate**. The highest level is the **Associate of Applied Science (AAS) Degree in Heating, Air Conditioning and Refrigeration Technology.** 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 Technical Center, as well as the South Campus, both of which are equipped with the latest technology.

Programs of study include:

- HART Technician Apprentice Certificate (28 hours)
- HART Technician Certificate (36 hours)
- Associate of Applied Science (AAS) Degree in HART (60 hours)

Course Requirements

Grayson College requires a high school diploma or equivalent. The Associate of Applied Science (AAS) Degree requires that TSI requirements are met.

Interested students are strongly encouraged to visit with a Success Coach or Faculty Mentor and follow a degree plan, as some courses are not available every semester.

Capstone Experience

To earn each certificate in this program, all students must successfully complete a comprehensive exit exam prior to graduation.

Local Employers

Advanced Cooling, Four Star Heating & Air Conditioning, Reynolds Electric & Air Conditioning, and Champion Cooler

AAS Degree Requirements

Associate of Applied Science Degree - Heating, Air Conditioning and Refrigeration Technology

AAS in Heating, Air Conditioning, and Refrigeration Curriculum

Subject	Semester Hours
HART 1401 (Basic Electricity for HVAC)	4
HART 1407 (Refrigeration Principles)	4
ENGL 1301 (Composition I)	3
BUSI 1301 (Business Principles)	3
DFTG 1425 (Blueprint Reading and Sketching)	4
Mathematics/Life and Physical Science Core	3
HART 1441 (Residential Air Conditioning)	4
HART 1445 (Gas and Electric Heating)	4
HART 2449 (Heat Pumps)	4
SPCH 1311 (Introduction to Speech Communication), SPCH 1315 (Public Speaking), or SPCH 1321 (Business & Professional Communication)	3
HART 2342 (Commercial Refrigeration)	3
Language, Philosophy, and Culture/Creative Arts Core	3
TECM 1403 (Technical Calculations) or Elective	4
Social and Behavioral Science Core	3
HART 2345 (Air Conditioning Systems Design)	3
HART 2436 (Air Conditioning Troubleshooting)	4
HART 2168 (Practicum - Capstone)	1

Subject	Semester Hours
Business Elective	3
total:	**60**

HART 1445, HART 2442, HART 2436, HART 2445 and HART 1441 are taught on a rotating basis: two classes every 3rd semester.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Capstone Experience. All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation. DFTG 1425 must be completed before any certificate is awarded

Business Electives

- BUSG 2309 Small Business Management/Entrepreneurship 3-1-3
- BUSG 1304 Financial Literacy 2-3-3
- BMGT 1305 Communications in Management 3-1-3
- BGMT 1327 Principles of Management 3-1-3
- BUSG 1302 E-Business Management 2-3-3

Electives

- DFTG 1405 Intro to Technical Drawing 2-4-4
- MCHN 1438 Introduction to Machining 2-6-4
- WLDG 1428 Introduction to Shielded Metal Arc Welding (SMAW) 2-6-4
- WLDG 1430 Introduction to Gas Metal Arc Welding (GMAW) 2-6-4
- WLDG 1434 Introduction to Gas Tungsten Arc Welding (GTAW) 2-6-4
- TECM 1403 Technical Calculations 4-1-4

Certificate Requirements

Heating, Air Conditioning, and Refrigeration Technician Apprentice - Certificate

HART Technician Apprentice Certificate Curriculum

Subject	Semester Hours
HART 1401 (Basic Electricity for HVAC)	4
HART 1407 (Refrigeration Principles)	4
DFTG 1425 (Technical Drawing Reading and Sketching)	4
HART 1168 (Practicum or Field Experience)	4
TECM 1403 (Technical Calculations)	4
Total:	**17**

HART electives are as follows:

- HART 1445
- HART 2442
- HART 2449
- HART 2436
- HART 2445
- HART 1441
- TECM 1403

These courses are taught on a rotating basis, with 2 classes every third semester.

Capstone Experience. All students must complete the capstone requirement: successful completion of a comprehensive exit exam prior to graduation. DFTG 1425 must be completed before any certificate is awarded

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Heating, Air Conditioning, and Refrigeration Technician - Certificate

HART Technician Certificate Curriculum

Subject	Semester Hours
HART 1401 (Basic Electricity for HVAC)	4

Subject	Semester Hours
HART 1407 (Refrigeration Principles)	4
DFTG 1425 (Technical Drawing Reading and Sketching)	4
HART 1168 (Practicum) or Field Experience	1
TECM 1403 (Technical Calculations)	4
HART 1441 (Residential Air Conditioning)	4
HART 1445 (Gas and Electric Heat)	4
HART 2449 (Heat Pumps)	4
HART 2342 (Commercial Air Conditioning)	3
HART 2346 (Air Conditioning Troubleshooting)	4
HART 2345 (Air Conditioning Systems Design)	3
Total:	**39**

HART electives are as follows:

- HART 1445
- HART 2442
- HART 2449
- HART 2436
- HART 2445
- HART 1441
- TECM 1403

These courses are taught on a rotating basis, with 2 classes every third semester.

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

Industrial Maintenance

Overview

Unlock Thriving Manufacturing Opportunities in Texoma with Our Comprehensive Program

Discover the high-demand world of manufacturing jobs in Texoma by enrolling in our six-course program. This program equips you with the essential knowledge and skills required to assemble, install, troubleshoot, repair, and modify various equipment and automated systems in manufacturing and commercial facilities. Furthermore, you will develop critical skills to effectively collaborate with team members, operators, suppliers, and customers to enhance your job performance and contribute to your company's competitiveness. Upon successful completion, students receive a Level 1 Certificate recognized by THECB (Texas Higher Education Coordinating Board).

Certificates

Industrial Maintenance Technician - Career Ready Certificate

Industrial Maintenance Technician Certificate Requirements

Subject	Contact Hours
INMT 1003 (Industrial Maintenance Technology, Basic) or TECM 1003 (Technical Calculations)	64
ELPT 1011 (Basic Electrical Theory)	80
ELPT 1041 (Motor Control)	80
ELPT 2019 (Programmable Logic Controllers I)	64
HYDR 1045 (Hydraulics and Pneumatics)	96
INMT 2045 (Industrial Troubleshooting) or PTAC 1046 (Process Troubleshooting)	96
Total:	**480**

Occupational Skills Awards

Programmable Logic Controller Technician - Career Ready OSA

Programmable Logic Controller Technician OSA Requirements

Subject	Contact Hours
ELPT 1041 (Motor Controls)	64
ELPT 2019 (Programmable Logic Controllers 1)	64
ELPT 2055 (Programmable Logic Controllers 2)	64
total:	**192**

Truck Driving (CDL)

Occupational Skills Awards

Truck Driving (CDL) - Career Ready Occupational Skill Award

CDL OSA Sequence

Subject	Contact Hours
CVOP 1005 (Commercial Driver's License Written SKills)	50
CVOP 1013 (Professional Truck Driving 1)	150
Total:	**200**

Welding Technology

Overview

The Welding Program prepares students to understand and utilize most of the basic welding processes to join such metals as carbon, aluminum, and stainless steel, which will provide them with the information and training to step directly into employment. The program will also prepare students for many types of employment related to welding, such as engineering, quality control, manufacturing technician, etc.

Grayson College offers an **Associate of Applied Science (AAS) Degree in Welding Technology** and two certificates of completion, the **Combination Welder Certificate** and the **Structural Welder Certificate,** 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 of Applied Science (AAS) Degree in Welding Technology**, the **Structural Welder Certificate** and the **Combination Welder Certificate** require a high school diploma or equivalent. The Associate of Applied Science (AAS) Degree requires that TSI requirements are met.

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, Eaton, Caterpillar, Dutec, Mueller Construction, Progress Rail, Plyler Construction, Weld-Co, PDQ International

AAS Degree Requirements

Associate of Applied Science Degree - Welding Technology

AAS in Welding Technology Curriculum

Subject	Semester Hours
WLDG 1427 (Welding Codes and Standards)	4
WLDG 1428 (Introduction to Shielded Metal Arc Welding (SMAW))	4
MCHN 1320 (Precision Tools and Measurement)	3
Mathematics Core	3
WLDG 1430 (Introduction to Gas Metal Arc Welding (GMAW))	4
WLDG 1457 (Intermediate Shielded Metal Arc Welding (SMAW))	4
WLDG 1313 (Blueprint Reading for Welders)	3
Language, Philosophy, and Culture/Creative Arts Core	3
Business Electives	3
WLDG 1434 (Introduction to Gas Tungsten Arc (GTAW) Welding)	4
WLDG 2447 (Advanced Gas Metal Arc Welding (GMAW))	4
ENGL 1301 (Composition I)	3
Social and Behavioral Science	3
WLDG 2406 (Intermediate Pipe Welding)	4
WLDG 2451 (Advanced Gas Tungsten Arc Welding (GTAW))	4
SPCH 1311 (Intro to Speech Communication) or SPCH 1315 (Public Speaking) or SPCH 1321 (Business & Professional Communication)	3
Elective	4
Total:	**60**

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

*Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Business Electives

- BUSG 2309 Small Business Management/Entrepreneurship (3-1-3)
- BUSI 1301 Business Principles (3-0-3)
- BUSG 1304 Financial Literacy (2-3-3)
- BMGT 1305 Communications in Management (3-1-3)
- BMGT 1327 Principles of Management (3-1-3)

WLDG Electives

- ELPT 1411 Basic Electrical (3-2-4)
- CETT 1403 DC Circuits (3-2-4)
- HART 1401 Basic Electrical for HVAC (3-4-4)

Certificate Requirements

Welding/Combination Welder - Certificate

Welding/Combination Welder Certificate Curriculum

Subject	Semester Hours
WLDG 1427 (Welding Fundamentals)	4
WLDG 1428 (Introduction to Shielded Metal Arc Welding (SMAW))	4
WLDG 1430 (Introduction to Gas Metal Arc Welding (GMAW))	4
WLDG 1457 (Intermediate Shielded Metal Arc Welding (SMAW))	4
WLDG 1313 (Blueprint Reading for Welders)	3
WLDG 1434 (Introduction to Gas Tungsten Arc (GTAW) Welding)	4
WLDG 2447 (Advanced Gas Metal Arc Welding (GMAW))	4
WLDG 2451 (Advanced Gas Tungsten Arc Welding (GTAW))	4
WLDG 2406 (Intermediate Pipe Welding)	4
MHCN 1320 (Blueprint Reading for Welders)	3
Total:	**38**

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

Welding/Structural - Certificate

Welding/Structural Certificate Curriculum

Subject	Semester Hours
WLDG 1427 (Welding Codes and Standards)	4
WLDG 1428 (Introduction to Shielded Metal Arc Welding (SMAW))	4
WLDG 1430 (Introduction to Gas Metal Arc Welding (GMAW))	4
WLDG 1457 (Intermediate Shielded Metal Arc Welding (SMAW))	4
WLDG 1313 (Blueprint Reading for Welders)	3
Total:	**19**

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

Orbital Welder (Career Ready) - Certificate

Orbital Welder Career Ready Certificate Curriculum

Subject	Contact Hours
WLDG 1034 (Welding Fundamentals)	128
WLDG 1013 (Introduction to Blueprint Reading for Welders)	64

Subject	Contact Hours
WLDG 2032 (Welding Automation)	128
WLDG 2050 (Orbital Tube Welding)	128
Total:	**448**

Pipefitting (Career Ready) - Certificate

Pipefitting Career Reader Certificate Curriculum

Subject	Contact Hours
PFPB 1008 (Basic Pipefitting Skills)	96
PFPB 1043 (Pipefitting Fabrication and Blueprint Reading)	96
PFPB 2032 (Advanced Pipefitting Standards, Specifications, and Installation)	96
PFPB 2033 (Pipefitting: Advanced Fabrication and Installation)	96
Total:	**384**

Public Services

Child Development

Overview

Grayson College offers an NAEYC accredited **Associate of Applied Science (AAS) Degree in Child Development,** a **Child Development/Child Care Administrator Certificate,** a **Child Development Certificate,** a **Child Development Occupational Skills Award,** and a **Child Developmental Associate Training Occupational Skills Award.** The AAS in Child Development degree program is 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 ages birth through adolescence with a focus on birth through age eight. This degree has you in 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 Intervention, and Head Start.

Course Requirements

The Associate of Applied Science (AAS) Degrees, certificates and occupational skills awards requires that you have a high school diploma or equivalent. The Associate of Applied Science (AAS) requires that you have met TSI requirements.

Capstone Experience

To earn a degree or certificate in this program, students must successfully complete a capstone course with a grade of B prior to graduation.

Accreditation Information

The Grayson College Associates of Applied Science in Child Development degree program is accredited by the Commission on the Accreditation of Early Childhood Higher Education Programs of the National Association for the Education of Young Children. The current accreditation term runs from July 2021 through July 2028.

AAS Degree Requirements

Associate of Applied Science - Child Development

AAS in Child Development Curriculum

Subject	Semester Hours
CDEC 1319 (Child Guidance)	3
CDEC 1323 (Observation & Assessment)	3
TECA 1354 (Child Growth & Development)	3
CDEC 1359 (Children with Special Needs)	3
EDUC 1300 (Learning Frameworks)	3
CDEC 2326 (Administration of Programs for Children I)	3
TECA 1311 (Educating Young Children)	3
ENGL 1301 (Composition I) or SPCH 1311 (Introduction to Speech Communication)	3
BIOL 1308, GEOL 1301, MATH 1332 or MATH 1342	3
CDEC 1313 Curriculum Resources for Early Childhood Programs)	3
TECA 1303 (Families, School & Communities)	3
TECA 1318 (Wellness of the Young Child)	3
Child Development Elective	3
Language, Philosophy, and Culture/Creative Arts Core	3
CDEC 2328 (Administration of Program for Children II)	3
CDEC 1356 (Emergent Literacy for Early Childhood)	3
CDEC 1321 or CDEC 2341	3
Approved Elective	3

Subject	Semester Hours
Approved Elective	3
CDEC 2384 (Cooperative Education - Child Development (Capstone))	3
total:	**60**

All students must complete the required capstone course CDEC 2384 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

It is recommended that students must meet with a counselor or academic advisor at the four-year institution of their choice to determine which courses will transfer to that institution's Bachelor's degree program.

Child Development Electives:

- CDEC 1317
- CDEC 1321
- CDEC 1330
- CDEC 1335
- CDEC 1339
- CDEC 1343
- CDEC 1358
- CDEC 2304
- CDEC 2307
- CDEC 2315
- CDEC 2322
- CDEC 2324
- CDEC 2340
- CDEC 2341

It is recommended that students transferring to Southeastern Oklahoma take ENGL 1301 and SOC 1301 to satisfy two of the Child Development electives.

It is recommended that students transferring to TWU take: CDEC 1321 (Infants and Toddlers) or CDEC 1358 (Creative Arts) to satisfy one of the Child Development Electives, and HIST 1301 and HIST 1302 as the remaining Child Development electives.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Certificate Requirements

Child Development / Child Care Administrator - Certificate

Child Development/Child Care Administrator Certificate Curriculum

Subject	Semester Hours
EDUC 1300 (Learning Frameworks)	3
CDEC 2326 (Admin of Programs of Children I)	3
CDEC 2328 (Admin of Program for Children II)	3
CDEC 1319 (Child Guidance)	3
TECA 1354 (Child Growth & Development)	3
CDEC 1321 (The Infant & Toddler)	3
CDEC 1359 (Children with Special Needs)	3
CDEC 2304 (Child Abuse and Neglect)	3
CDEC 2341 (The School-Age Child)	3
CDEC 2336 (Admin. of Program of Children III)	3
CDEC 2186 (Internship - Child Care Provider/Assistant (Capstone))	1
Total:	**31**

Capstone Requirement: All students must complete the required capstone course CDEC 2186 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

Child Development - Certificate

Child Development Certificate Curriculum

Subject	Semester Hours
CDEC 1317 (Child Development Associate Training 1)	3
EDUC 1300 (Learning Frameworks)	3
CDEC 2322 (Child Development Associate Training 2)	3
CDEC 1319 (Child Guidance)	3
TECA 1354 (Child Growth & Development)	3
CDEC 1321 (The Infant and the Toddler)	3
CDEC 1359 (Children with Special Needs)	3
CDEC 2304 (Child Abuse and Neglect)	3
CDEC 2324 (Child Development Associate Training 3)	3
CDEC 1356 (Emergent Literacy for Early Childhood)	3
CDEC 2166 (Practicum Childcare Provider (Capstone)	1
Total:	**31**

Capstone Requirement: All students must complete the required capstone course CDEC 2166 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

Occupational Skills Award Requirements

Child Development - Occupational Skills Award

This award does not lead to a national CDA credential.

Child Development Occupational Skills Award Curriculum

Subject	Semester Hours
TECA 1354 (Child Growth & Development)	3
CDEC 1359 (Children with Special Needs)	3
CDEC 1319 (Child Guidance)	3
Total:	**9**

Child Development Associate Training - Occupational Skills Award

Child Development Associate Training Occupational Skills Award Curriculum

Subject	Semester Hours
CDEC 1317 (Child Development Associate Training I)	3
CDEC 2322 (Child Development Associate Training II)	3
CDEC 2324 (Child Development Associate Training III)	3
Total:	**9**

Criminal Justice

Overview

Grayson College offers an **Associate of Science (AS) Degree in Criminal Justice**. Majoring in Criminal Justice will help prepare the student for a number of careers in law enforcement, courts, and private security. Employment opportunities also exist serving as a corrections officer, probation officer, parole officer, crime scene investigator, and the corporate world of loss prevention.

The entire Criminal Justice AS degree program is also available in an online format.

Course Requirements

Admission to Grayson College requires a high school diploma or an equivalent and that all TSI requirements are met.

Local Employers

Grayson County Sheriff's Office, Sherman Police Department, Denison Police Department, Pottsboro Police Department, Howe Police Department, Buster Cole State Jail and the Choice Moore Transfer Facility.

AS Degree Requirements

Associate of Science - Criminal Justice

AS in Criminal Justice Curriculum

Subject	Semester Hours
CRIJ 1301 (Introduction to Criminal Justice)	3
ENGL 1301 (Composition I)	3
MATH 1314 (College Algebra)	3
CRIJ 1306 (Court Systems and Practices)	3
ENGL 2311 (Technical and Business Writing)	3
HIST 1301 (United States History I)	3
CRIJ 1310 (Fundamentals of Criminal Law)	3
SPCH 1311 (Introduction to Speech and Communication)	3
Life and Physical Sciences Core	3
Life and Physical Sciences (CAO)	1
CRIJ 2313 (Correctional Systems and Practices)	3
GOVT 2305 (Federal Government)	3
HIST 1302 (United States History II)	3
CRIJ 2328 (Police Systems and Practices)	3
Social and Behavior Sciences Core	3
Life and Physical Sciences Core	3
Life and Physical Sciences (CAO) Core	1
PHED 1164 (Introduction to Physical Fitness and Wellness)	1
Criminal Justice Elective	3
GOVT 2306 (Texas Government)	3
Creative Arts Core	3
Language, Philosophy and Culture Core	3
Total:	**60**

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

Criminal Justice Electives:

- CRIJ 1301 Introduction to Criminal Justice
- CRIJ 1306 Court Systems and Practices
- CRIJ 1307 Crime in America
- CRIJ 1310 Fundamentals of Criminal Law

- CRIJ 1313 Juvenile Justice System
- CRIJ 2301 Community Resources in Corrections
- CRIJ 2313 Correctional Systems and Practices
- CRIJ 2314 Criminal Investigation
- CRIJ 2323 Legal Aspects of Law Enforcement
- CRIJ 2328 Police Systems and Practices

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

It is recommended that students meet with a counselor or academic advisor at the four-year institution of their choice to determine which courses will transfer to that institution's Bachelor's degree program.

Fields of Study

Field of Study - Criminal Justice

Criminal Justice Field of Study - Law Enforcement Administration

Subject	Semester Hours
CRIJ 1301 (Intro to Criminal Justice)	3
CRIJ 1306 (Court Systems and Practices)	3
CRIJ 1310 (Fundamentals of Criminal Law)	3
CRIJ 2313 (Correctional Systems & Practices)	3
CRIJ 2328 (Police Systems & Practices)	3
Elective	3
Elective	3
Total:	**21**

Early Childhood Education

Overview

Grayson College offers an **Associate of Applied Science in Early Childhood Education** with a focus on the education of young children Pre-K through grade 3, teacher certification, and is part of a direct articulation agreement with Texas Woman's University's Early Childhood Education Bachelor's degree.

AAS Degree Requirements

Associate of Applied Science - Early Childhood Education

AAS in Early Childhood Education Curriculum

Subject	Semester Hours
EDUC 1300 (Learning Frameworks)	3
CDEC 1319 (Child Guidance)	3
EDUC 1301 (Intro to the Teaching Profession)	3
TECA 1354 (Child Growth & Development)	3
Creative Arts Core	3
TECA 1303 (Families, School & Communities)	3
TECA 1311 (Educating Young Children)	3
CDEC 1313 (Curriculum Resources for Early Childhood Programs)	3
ENGL 1301 (Composition I)	3
Mathematics Core	3
CDEC 2336 (Administration of Programs for Young Children III)	3
CDEC 2307 (Math and Science in Early Childhood)	3
TECA 1318 (Wellness of the Young Child)	3
EDUC 2301 (Introductions to Special Populations)	3
HIST 1301 (United States History 1)	3
CDEC 1358 (Creative Arts)	3
CDEC 2384 (Cooperative Education - Child Development (Capstone))	3
HIST 1302 (United States History 2)	3
ENGL 1302 (Composition II)	3
Language, Philosophy, and Culture/Creative Arts Core	3
Total:	**60**

Capstone Requirement: All students must complete the required capstone course CDEC 2384 to satisfy the requirements for a Capstone experience. The capstone course may not be substituted.

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**

The Associate of Arts in Teaching (AAT) Degree requires that TSI requirements are met.

Courses within the program align with the 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 consult 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) 8-12 Certification, EC-12 Other Than Special Education

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.

AAT in 8-12 Certification, EC-12 Other Than Special Education Curriculum

Subject	Semester Hours
EDUC 1300 (Learning Frameworks) or Component Area Option Core	3
ENGL 1301 (Composition I)	3
EDUC 1301 (Introduction to the Teaching Profession)	3
HIST 1301 (United States History I)	3
MATH 1314 (College Algebra)	3
Elective in Discipline	3
Elective in Discipline	3
Life and Physical Sciences Core	3
Life and Physical Sciences Lab	1
ENGL 1302 (English Composition II)	3
HIST 1302 (United States History II)	3
EDUC 2301 (Introduction to Special Populations)	3
TECA 1354 (Child Growth and Development)	3
GOVT 2305 (Federal Government)	3
Life and Physical Sciences Core	3
Life and Physical Sciences Lab	1
Elective in Discipline	3
Elective in Discipline	3
Language, Philosophy and Culture Core	3
GOVT 2306 (Texas Government)	3
Creative Arts Core	3
Component Area Option Option	1
Total:	**60**

Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Check with a GC academic advisor and the receiving university/college for recommended courses.

AAT 4-8; EC-12 Degree Requirements

Associate of Arts in Teaching (AAT) in 4-8 Certification, EC-12 Special Education Certification

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 consult 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 in 4-8, EC-12 Special Education Curriculum

Subject	Semester Hours
EDUC/PSYC 1300 (Learning Frameworks) or Component Area Option Core	3
ENGL 1301 (Composition I)	3
EDUC 1301 (Introduction to the Teaching Profession)	3
HIST 1301 (United States History I)	3
MATH 1314 (College Algebra)	3
EDUC 2301 (Intro to Special Populations)	3
ENGL 1302 (Composition II)	3
MATH 1350 (Mathematics for Teachers I)	3
Life and Physical Sciences Core	3
Life and Physical Sciences Lab Core (CAO)	1

Subject	Semester Hours
HIST 1302 (United States History II)	3
GOVT 2305 (Federal Government)	3
MATH 1351 (Math for Teachers II)	3
Life and Physical Sciences Core	3
Life and Physical Sciences Lab	1
TECA 1354 (Child Growth and Development)	3
GOVT 2306 (Texas Government)	3
Language, Philosophy and Culture Core	3
Component Area Option Core	3
Creative Arts Core	3
Science Elective	3
Life and Physical Sciences Lab Core	1
total:	**60**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Check with a GC Success Coach and the receiving university/college for recommended courses.

AAT EC-6 Certification Degree Requirements

Associate of Arts in Teaching (AAT) EC-6 Certification (Early Childhood-6th grade)

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 consult 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.

Associate of Arts in Teaching (AAT) EC-6 Certification (Early Childhood-6th grade) Curriculum

Subject	Semester Hours
EDUC/PSYC 1300 (Learning Frameworks) or Component Area Option Core	3
ENGL 1301 (Composition I)	3
EDUC 1301 (Introduction to the Teaching Profession)	3
HIST 1301 (United States History I)	3
MATH 1314 (College Algebra)	3
EDUC 2301 (Introduction to Special Populations)	3
ENGL 1302 (Composition II)	3
MATH 1350 (Mathematics for Teachers I)	3
Life and Physical Sciences Core	3
Life and Physical Sciences Lab (CAO)	1
HIST 1302 (United States History II)	3
GOVT 2305 (Federal Government)	3
MATH 1351 (Mathematics for Teachers II)	3
Life and Physical Sciences Core	3
Life and Physical Sciences Lab	1
TECA 1354 (Child Growth and Development)	3
GOVT 2306 (Texas Government)	3
Language, Philosophy and Culture Core	3
Component Area Option Core	1
Creative Arts Core	3
Directed Electives	3
Directed Electives	3

Subject	Semester Hours
total:	**60**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Check with a GC Success Coach and the receiving university/college for recommended courses.

Certificate Requirements

Educational Aide II Certificate

Educational Aide II Certificate Curriculum

Subject	Semester Hours
EDUC 1300 (Learning Frameworks)	3
EDUC 1301 (Introduction to the Teaching Profession)	3
ENGL 1301 (Composition I)	3
TECA 1354 (Child Growth and Development)	3
EDUC 2301 (Introduction to Special Populations)	3
total:	**15**

Police Academy

Overview

The Texoma Regional Police Academy (TRPA) at Grayson College offers a 21-week (848 hours) daytime program designed to prepare students for a challenging and rewarding career in law enforcement. TRPA also offers a 42-week part-time evening academy class. Students are awarded 23 credit hours of college credit for the completion of the Police Academy program at Grayson College. The Police Academy program 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 Police Academy program and passing the TCOLE state-licensing exam are certified to seek employment 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 Identigo and cleared by TCOLE;
  Submit to and successfully pass a physical exam and drug screen and a psychological exam.
- Gain admission to Grayson College.

Certificate Requirements

Police Academy - Certificate

Police Academy Certificate Curriculum

Subject	Semester Hours
CJLE 1506 (Basic Peace Officer I)	5
CJLE 1512 (Basic Peace Officer II)	5
CJLE 1518 (Basic Peace Officer III)	5
CJLE 1524 (Basic Peace Officer IV)	5
CJLE 1329 (Basic Peace Officer V)	3
Total:	**23**

STEM

Agricultural Sciences and Agribusiness

Overview

A graduate with an **Associate of Science (AS) Degree in Agricultural Sciences** should possess competencies in basic economics and management, plant and animal operations, pest control, production and utilization of plant and animal products, marketing and food sciences. Grayson College also offers an **Associate of Applied Science (AAS) in Agribusiness Management** for students looking to manage their own farm enterprise or work in the agricultural business. The ultimate goal is to provide clear pathways for transfer for students to complete their Bachelor of Science (BS) in either a general BS in Ag Sciences and/or specialize in any number of ag science fields.

Associate Degree Requirements

Associate of Science - Agricultural Sciences

AS in Agricultural Sciences Curriculum

Subject	Semester Hours
AGRI 1131 (The Agricultural Industry)	1
ENGL 1301 (Composition I)	3
American History Core	3
Mathematics Core	3
Life and Physical Sciences Core	3
Life and Physical Sciences Lab (CAO)	1
Life and Physical Sciences Core	3
Life and Physical Sciences Lab (CAO)	1
Communication Core	3
American History Core	3
Language, Philosophy, and Cultural Core	3
Agricultural Sciences Elective	3
Agricultural Sciences Elective (lab)	1
Agricultural Sciences Elective	3
Creative Arts Core	3
Agricultural Sciences Elective	3
Agricultural Sciences Elective (Lab)	1
Government/Political Sciences Core	3
AGRI 2317 (Introduction to Agricultural Economics)	3
Component Area Option Core	1
Agricultural Sciences Elective	3
Component Area Option Core	3
Government/Political Science Core	3
Agricultural Sciences Elective	3
Total:	**60**

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

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Associate of Applied Science - Agribusiness Management

AAS in Agribusiness Management Sequence

Subject	Semester Hours
AGRI 1131 (The Agricultural Industry)	1
AGRI 2317 or AGMG 1318 (Introduction to Agricultural Economics)	3

Subject	Semester Hours
AGRI 1325 or AGMG 2312 (Marketing of Agriculture Products)	3
AGRI 1307 (Agronomy) or AGRI 1315 (Horticulture)	3
AGRI 1107 (Agronomy Lab) or AGRI 1115 (Horticulture Lab)	1
AGRI 1319 (Introductory Animal Science) or AGAH 1301 (Animal Science)	3
AGMG 1311 (Introduction to Agbusiness)	3
Agbusiness Elective	3
Agbusiness Elective	3
Agbusiness or Ag Focus Elective	3
Agbusiness or Ag Focus Elective	3
AGRI 1309 (Computers in Agriculture)	3
MATH 1342 (Elementary Statistics)	3
Agbusiness Elective	3
Agbusiness or Ag Focus Elective	3
Agbusiness or Ag Focus Elective	3
Agbusiness Elective	3
Agbusiness or Ag Focus Elective	3
ENGL 1301 (Composition 1)	3
Language/Humanities Philosophy Core	3
GOVT 2305 (US Government)	
AGMG 1164 (Practicum, Farm and Ranch Management) or AGMG 2186 (Internship - Agricultural Business and Management, General)	1
Total:	**60**

Note: All science courses at Grayson College must be taken with their corresponding labs. An exception is made for Students who take the AGRI 1319 course in the Agribusiness Management AAS who only need to complete the lecture portion.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Ag Focus Electives

- AGRI 1329 Principles of Food Science
- AGRI 2321 Livestock Evaluation
- AGRI 2330 Wildlife Conservation and Management
- FDST 1323 Principles of Viticulture I
- FDST 1370 Grapevine Biology
- FDST 2320 Principles of Viticulture II
- SCIT 1305 Intro to Ag Chemistry
- AGCR 1307 Range Management
- AGCR 2305 Entomology
- AGCR 2313 Soil and Water Conservation Management
- HALT 2323 Horticultural Pest Control
- AGAH 1341 Sheep and Goat Production
- AGAH 1347 Animal Reproduction
- AGAH 1353 Beef Cattle Production
- AGAH 2313 Principles of Feed and Feeding
- AGEQ 1301 Equine Behavior and Training I
- AGEQ 1311 Equine Science I
- AGEQ 1350 Equine Reproduction
- AGEQ 2310 Equine Business Management

Agribusiness Electives

- AGMG 1300 Agricultural Policies, Safety and Codes
- AGMG 1344 Agricultural Records Management
- AGMG 2301 Livestock Business Management
- AGMG 2306 Livestock and Meat Marketing

- AGMG 2316 Agricultural Finance

Plant Science Electives

- AGCR 1403 Crop Science*

*AGCR 1403 can be substituted for AGRI 1307/1107 or AGRI 1315/1115

Please note that Ag Focus electives are recommended to be completed in the following groups:

- Plant/Pest (SCIT 1305, AGCR 1307, AGCR 1307, AGCR 2305, AGCR 2313, HALT 2323)-- management and drone pilot licenses in the future will be available via coursework in AGCR 2305 and HALT 2323;
- Viticulture (AGRI 1329, FDST 1323, FDST 1370, FDST 2320);
- Livestock (AGRI 2321, AGRI 2330, AGAH 1341, AGAH 1347, AGAH 1353, AGAH 2313);
- Equine (AGEQ 1301, AGEQ 1311, AGEQ 1350, AGEQ 2310)

Certificate Requirements

Ag Technology

Ag Technology Certificate

Subject	Semester Hours
AGRI 1131 (The Agricultural Industry)	1
AGRI 2317 or AGMG 1318 (Introduction to Agricultural Economics)	3
AGRI 1325 or AGMG 2312 (Marketing of Agriculture Products)	3
AGRI 1307 (Agronomy) or AGRI 1315 (Horticulture)	3
AGRI 1107 (Agronomy Lab) or AGRI 1115 (Horticulture Lab)	1
AGRI 1319 (Introductory Animal Science) or AGAH 1301 (Animal Science)	3
AGMG 1311 (Introduction to Agbusiness)	3
Agbusiness Elective	3
Agbusiness Elective	3
Agbusiness or Ag Focus Elective	3
Agbusiness or Ag Focus Elective	3
AGRI 1309 (Computers in Agriculture)	3
MATH 1342 (Elementary Statistics)	3
Agbusiness Elective	3
Agbusiness or Ag Focus Elective	3
Agbusiness or Ag Focus Elective	3
Ag Focus Elective	3
AGMG 1164 (Practicum, Farm and Ranch Management) or AGMG 2186 (Internship - Agricultural Business and Management, General)	1
Total:	**45**

Note: All science courses at Grayson College must be taken with their corresponding labs. An exception is made for Students who take the AGRI 1319 course in the Agribusiness Management AAS who only need to complete the lecture portion.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Ag Focus Electives

- AGRI 1329 Principles of Food Science
- AGRI 2321 Livestock Evaluation
- AGRI 2330 Wildlife Conservation and Management
- FDST 1323 Principles of Viticulture I
- FDST 1370 Grapevine Biology
- FDST 2320 Principles of Viticulture II
- SCIT 1305 Intro to Ag Chemistry
- AGCR 1307 Range Management
- AGCR 2305 Entomology

- AGCR 2313 Soil and Water Conservation Management
- HALT 2323 Horticultural Pest Control
- AGAH 1341 Sheep and Goat Production
- AGAH 1347 Animal Reproduction
- AGAH 1353 Beef Cattle Production
- AGAH 2313 Principles of Feed and Feeding
- AGEQ 1301 Equine Behavior and Training I
- AGEQ 1311 Equine Science I
- AGEQ 1350 Equine Reproduction
- AGEQ 2310 Equine Business Management

Agribusiness Electives

- AGMG 1300 Agricultural Policies, Safety and Codes
- AGMG 1344 Agricultural Records Management
- AGMG 2301 Livestock Business Management
- AGMG 2306 Livestock and Meat Marketing
- AGMG 2316 Agricultural Finance

Plant Science Electives

- AGCR 1403 Crop Science*

*AGCR 1403 can be substituted for AGRI 1307/1107 or AGRI 1315/1115

Please note that Ag Focus electives are recommended to be completed in the following groups:

- Plant/Pest (SCIT 1305, AGCR 1307, AGCR 1307, AGCR 2305, AGCR 2313, HALT 2323)-- management and drone pilot licenses in the future will be available via coursework in AGCR 2305 and HALT 2323;
- Viticulture (AGRI 1329, FDST 1323, FDST 1370, FDST 2320);
- Livestock (AGRI 2321, AGRI 2330, AGAH 1341, AGAH 1347, AGAH 1353, AGAH 2313);
- Equine (AGEQ 1301, AGEQ 1311, AGEQ 1350, AGEQ 2310)

Ag Entrepreneur

Ag Entrepreneur Certificate

Subject	Semester Hours
AGRI 1131 (The Agricultural Industry)	1
AGRI 2317 or AGMG 1318 (Introduction to Agricultural Economics)	3
AGRI 1325 or AGMG 2312 (Marketing of Agriculture Products)	3
AGRI 1307 (Agronomy) or AGRI 1315 (Horticulture)	3
AGRI 1107 (Agronomy Lab) or AGRI 1115 (Horticulture Lab)	1
AGRI 1319 (Introductory Animal Science) or AGAH 1301 (Animal Science)	3
AGMG 1311 (Introduction to Agbusiness)	3
Agbusiness Elective	3
Ag Focus Elective	3
Ag Focus Elective	3
Ag Focus Elective	3
AGMG 1164 (Practicum, Farm and Ranch Management) or AGMG 2186 (Internship - Agricultural Business and Management, General)	1
Total:	**30**

Note: All science courses at Grayson College must be taken with their corresponding labs. An exception is made for Students who take the AGRI 1319 course in the Agribusiness Management AAS who only need to complete the lecture portion.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Ag Focus Electives

- AGRI 1329 Principles of Food Science
- AGRI 2321 Livestock Evaluation

- AGRI 2330 Wildlife Conservation and Management
- FDST 1323 Principles of Viticulture I
- FDST 1370 Grapevine Biology
- FDST 2320 Principles of Viticulture II
- SCIT 1305 Intro to Ag Chemistry
- AGCR 1307 Range Management
- AGCR 2305 Entomology
- AGCR 2313 Soil and Water Conservation Management
- HALT 2323 Horticultural Pest Control
- AGAH 1341 Sheep and Goat Production
- AGAH 1347 Animal Reproduction
- AGAH 1353 Beef Cattle Production
- AGAH 2313 Principles of Feed and Feeding
- AGEQ 1301 Equine Behavior and Training I
- AGEQ 1311 Equine Science I
- AGEQ 1350 Equine Reproduction
- AGEQ 2310 Equine Business Management

Agribusiness Electives

- AGMG 1300 Agricultural Policies, Safety and Codes
- AGMG 1344 Agricultural Records Management
- AGMG 2301 Livestock Business Management
- AGMG 2306 Livestock and Meat Marketing
- AGMG 2316 Agricultural Finance

Plant Science Electives

- AGCR 1403 Crop Science*

*AGCR 1403 can be substituted for AGRI 1307/1107 or AGRI 1315/1115

Please note that Ag Focus electives are recommended to be completed in the following groups:

- Plant/Pest (SCIT 1305, AGCR 1307, AGCR 1307, AGCR 2305, AGCR 2313, HALT 2323)-- management and drone pilot licenses in the future will be available via coursework in AGCR 2305 and HALT 2323;
- Viticulture (AGRI 1329, FDST 1323, FDST 1370, FDST 2320);
- Livestock (AGRI 2321, AGRI 2330, AGAH 1341, AGAH 1347, AGAH 1353, AGAH 2313);
- Equine (AGEQ 1301, AGEQ 1311, AGEQ 1350, AGEQ 2310)

Agribusiness

Agribusiness Certificate

Subject	Semester Hours
AGRI 1131 (The Agricultural Industry)	1
AGRI 2317 or AGMG 1318 (Introduction to Agricultural Economics)	3
AGRI 1325 or AGMG 2312 (Marketing of Agriculture Products)	3
AGRI 1307 (Agronomy) or AGRI 1315 (Horticulture)	3
AGRI 1107 (Agronomy Lab) or AGRI 1115 (Horticulture Lab)	1
AGRI 1319 (Introductory Animal Science) or AGAH 1301 (Animal Science)	3
AGMG 1311 (Introduction to Agbusiness)	3
Agbusiness Elective	3
Agbusiness Elective	3
Agbusiness Elective	3
Agbusiness Elective	3
AGMG 2186 (Internship - Agricultural Business and Management, General)	1
Total:	**30**

Note: All science courses at Grayson College must be taken with their corresponding labs. An exception is made for Students who take the AGRI 1319 course in the Agribusiness Management AAS who only need to complete the lecture portion.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Agribusiness Electives

- AGMG 1300 Agricultural Policies, Safety and Codes
- AGMG 1344 Agricultural Records Management
- AGMG 2301 Livestock Business Management
- AGMG 2306 Livestock and Meat Marketing
- AGMG 2316 Agricultural Finance

Plant Science Electives

- AGCR 1403 Crop Science*

*AGCR 1403 can be substituted for AGRI 1307/1107 or AGRI 1315/1115

Occupational Skills Award Requirements

Small Scale Farmer - Occupational Skills Award

Small Scale Farmer Award Requirement

Subject	Semester Hours
AGRI 1131 (The Agricultural Industry)	1
AGRI 2317 or AGMG 1318 (Introduction to Agricultural Economics)	3
AGRI 1325 or AGMG 2312 (Marketing of Agriculture Products)	3
AGRI 1307 (Agronomy) or AGRI 1315 (Horticulture)	3
AGRI 1107 (Agronomy Lab) or AGRI 1115 (Horticulture Lab)	1
AGRI 1319 (Introductory Animal Science) or AGAH 1301 (Animal Science)	3
Total:	**14**

Note: All science courses at Grayson College must be taken with their corresponding labs. An exception is made for Students who take the AGRI 1319 course in the Agribusiness Management AAS who only need to complete the lecture portion.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Plant Science Electives

- AGCR 1403 Crop Science*

*AGCR 1403 can be substituted for AGRI 1307/1107 or AGRI 1315/1115

Biological and Physical Sciences

Overview

The Biological and Physical Sciences major at Grayson College is designed for transfer to four-year institutions. For students planning to pursue a Chemistry,Geography, Geology, and/or Physics major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science (AS) Degree in Biological and Physical Sciences** at Grayson College as part of the Science and Technology Career Pathway. All students are advised to consult 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 - Biological and Physical Sciences

AS in Biological and Physical Sciences Curriculum

Subject	Semester Hours
Component Area Option Core	3
Life and Physical Sciences Core	3
Life and Physical Sciences Lab (CAO)	1
ENGL 1301 (Composition I)	3
Mathematics Core	3
HIST 1301 (United States History I) or HIST 1302 (United States History II)	3
American History Core	3
Life and Physical Sciences Core	3
Life & Physical Sciences Lab (CAO)	1
ENGL 1302 (Composition 2) or ENGL 2311 (Technical and Business Writing)	3
ART 1301 (Art Appreciation), DRAM 1310 (Theatre Appreciation), or MUSI 1306 (Music Appreciation)	3
Component Area Option Core	3
Language, Philosophy, and Culture Core	3
GOVT 2305 (Federal Government)	3
Biological & Physical Sciences Elective	3
Biological & Physical Sciences Lab	1
Biological & Physical Sciences Elective	3
Biological & Physical Sciences Lab	1
Social and Behavioral Sciences Core	3
GOVT 2306 (Texas Government)	3
Biological & Physical Sciences Elective	3
Biological & Physical SciencesLab	1
Biological & Physical Sciences Elective	3
Biological & Physical SciencesLab	1
Total:	**60**

Note: All sciences must be science major courses. Students are encouraged to select electives that meet the graduation requirement of the senior institution.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Cloud Computing

Overview

Grayson College's Cloud Computing program prepares students to support computing in a cloud network environment. Students become familiar with cloud concepts, services, architecture, system integration, connectivity, data center migration, administration, security, compliance and technical support. New courses offering advanced AI user and programming skills have also recently been added.

GC offers an **Associate of Applied Science degree in Cloud Computing,** which is the culmination of the required Cloud classes along with the state required core curriculum to produce a well-rounded employee.

In addition to the Associate of Applied Science (AAS) Degree, the College offers a **Cloud Computing Technician Certificate**, and **Cloud Support Occupational Skills Award.**

GC cloud specific classes use AWS course curriculum which leads to certification as an "AWS Cloud Practitioner" if the student chooses to take the AWS exam.

Course Requirements

The Cloud Computing program requires a high school diploma or an equivalent for entrance into the program. The Associate of Applied Science (AAS) Degree requires that TSI requirements are met.

Capstone Experience

Graduation with an Associate of Applied Science (AAS) Degree in the Cloud Computing program requires the successful completion of a comprehensive capstone course in advanced cloud computing.

Local Employers (including remote work positions)

AWS, Choctaw Nation, Sonos Inc., Concentrix, Google Cloud, Harley Davidson, Netflix, KFC

AAS Degree Requirements

Associate of Applied Science - Cloud Computing

AAS in Cloud Computing Curriculum

Subject	Semester Hours
CPMT 1303 (Introduction to Computer Technology) or COSC 1301 (Introduction to Computing)	3
ITSW 1307 (Introduction to Database)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1342 (Shell Programming) or ITSE 1359 (Introduction to Scripting Languages)	3
COSC 1336 (Programming Fundamentals I) or ITSE 1359 (Introduction to Scripting Languages)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
ITNW 1309 (Fundamentals of Cloud Computing)	3
ITNW 2355 (Server Virtualization)	3
ITNW 2327 (Advanced Cloud Concepts)	3
ITSC 1316 (Linux Installation & Configuration)	3
CPMT 2345 (Computer System Troubleshooting)	3
ITNW 1354 (Implementing and Supporting Servers)	3
ITSY 1300 (Fundamentals of Information Security)*	3
ITSC 2325 (Advanced Linux)	3
Approved Computer Maintenance, Cyber Security or Cloud Computing Elective	3
Mathematics/Life and Physical Sciences Core	3
Language, Philosophy, and Culture/Creative Arts Core	3
ENGL 1301 (Composition I)	3
SPCH 1311 (Intro to Speech and Communication) or SPCH 1315 (Public Speaking) or SPCH 1321 (Business & Professional Communication)	3

Subject	Semester Hours
Social and Behavioral Sciences Core	3
total:	**60**

* = Prerequisite for all ITSY courses

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Electives

- COSC 1301 Introduction to Computing
- COSC 1336 Programming Fundamentals I
- COSC 1437 Programming Fundamentals II
- COSC 2425 Computer Organization and Machine Language
- COSC 2436 Programming Fundamentals III
- CPMT 1311 Intro to Computer Maintenance
- CPMT 1349 Computer Networking Technology
- CPMT 2350 Industry Certification Preparation
- CPMT 2388 Internship - Computer Installation and Repair Technology/Technician
- CPMT 2389 Internship
- CPMT 2688 Internship - Computer Installation and Repair Technology/Technician
- EECT 1407 Convergent Technologies
- IMED 1316 Web Design I
- ITNW 1308 Implementing and Supporting Client Operating Systems
- ITNW 1351 Fundamentals of Wireless LANs
- ITNW 2305 Network Administration
- ITSC 1309 Integrated Software Applications 1
- ITSC 2339 Personal Computer Help Desk Support
- ITSW 1304 Introduction to Spreadsheets
- ITSC 2321 Integrated Software Applications II
- ITNW 2312 Routers
- ELPT 2319 Programmable Logic Controllers I
- POFT 1391 Special Topics: Artificial Intelligence for Administrative Use I
- POFI 1391 Special Topics: Artificial Intelligence for Administrative Use II
- GAME 2349 Artificial Intelligence Programming II
- ITSE 1391 Special Topics: Advanced AI Programming
- ITSY 2343 Computer System Forensics
- ITSY 2301 Firewalls and Network Security Design
- ITSY 2342 Incident Response & Handling
- ITSY 1342 Information Technology Security
- ITSY 2330 Intrusion Detection
- ITSY 2345 Network Defense and Countermeasures

Certificate Requirements

Cloud Computing Technician - Certificate 2

Cloud Computing Technician Certificate 2 Curriculum

Subject	Semester Hours
ITSC 1342 (Shell Programming) or ITSE 1359 (Introduction to Scripting Languages)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
COSC 1336 (Programming Fundamentals I) or ITSE 1359 (Introduction to Scripting Languages)	3
ITNW 1354 (Implementing and Supporting Servers)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1316 (Linux Installation & Configuration)	3
ITSY 1300 (Fundamentals of Info Security)	3
ITSW 1307 (Introduction to Database)	3
ITNW 1309 (Fundamentals of Cloud Computing)	3
ITNW 2327 (Advanced Cloud Concepts)	3
ITNW 2355 (Server Virtualization)	3

Subject	Semester Hours
ITSC 2325 (Advanced Linux)	3
total:	**36**

Skill Awards

Cloud Support Occupational Skills Awards

Cloud Support Curriculum

Subject	Semester Hours
ITNW 1325 (Fundamentals of Networking Technologies)	3
ITSC 1316 (Linux Installation & Configuration)	3
ITNW 1309 (Fundamentals of Cloud Computing)	3
ITNW 2327 (Advanced Cloud Concepts)	3
total:	**12**

Computer Maintenance and Networking Technology

Overview

Grayson College's Computer Maintenance 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+ Security+ and exams.

GC offers an **Associate of Applied Science (AAS) 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 Certificates of Completion include the following options:

The **Computer Network Administration Certificate** 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.

The **Computer Maintenance & Networking Support Occupational Skills Award** prepares students with the fundamental skills needed to enter the workforce in the areas of computer maintenance and networking.

The **Computer Network Technician Certificate** 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 that prepares students for a career in the computer industry. It provides 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 and Networking Technology program requires a high school diploma or an equivalent for entrance into the program. The Associate of Applied Science Degree (AAS) requires that TSI requirements are met.

Capstone Experience

Graduation with an Associate of Applied Science (AAS) Degree in the Computer Maintenance and Networking Technology program requires the 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. 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; One Touch Engineering; City of Denison, City of Sherman, Fannin County, 360 Broadband, Globalwafers, Choctaw Nation, ACS Manufacturing, KTEN, Grayson Pro-Tech, L3Harris, CompuTek, United Healthcare System/Texoma Medical Center

AAS Degree Requirements

Associate of Applied Science - Computer Maintenance & Network Technology

AAS in Computer Maintenance Curriculum

Subject	Semester Hours
ENGL 1301 (Composition I)	3
CPMT 1303 (Intro to Computer Technology) or COSC 1301 (Introduction to Computing)	3
Approved Computer Maintenance or Cyber Security Elective	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1354 (Implementing and Supporting Servers)	3

Subject	Semester Hours
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
Computer Maintenance or Cyber Security Elective	3
Mathematics/Life and Physical Sciences Core	3
ITSY 1300 (Fundamentals of Information Security)*	3
ITNW 1351 (Fundamentals of Wireless LANs)	3
ITSC 1316 (Linux Install and Configuration)	3
CPMT 1349 (Computer Networking Technology)	3
Language, Philosophy, and Culture/Creative Arts Core	3
CPMT 2345 (Computer System Troubleshoot (Capstone)	3
SPCH 1311 (Introduction to Speech Communication)	3
Computer Maintenance or Cyber Security Elective	3
Computer Maintenance or Cyber Security Elective	3
Social and Behavioral Sciences Core	3
total:	**60**

* = Prerequisite for all ITSY courses

Capstone Experience: Graduation with the Associate of Applied Science (AAS) Degree requires the successful completion of the prescribed capstone course CPMT 2345.

Computer Maintenance or Cyber Security Electives:

- COSC 1336 Programming Fundamentals I
- CPMT 1391 A+ Exam Preparation
- IMED 2315 Web Design II
- EECT 1407 Convergence Technologies
- ITSC 2339 Personal Computer Help Desk
- ITSE 2317 Java Programming
- ITSC 1342 Shell Programming
- ITNW 2355 Server Virtualization
- ITSC 2325 Advanced Linux
- ITNW 1308 Implement & Support Operating Systems
- ITSW 1307 Introduction To Database
- CPMT 2388 Internship -- Computer Installation And Repair Technology
- CPMT 2389 Internship -- Computer Installation And Repair Technology
- CPMT 2688 Internship -- Computer Installation And Repair Technology
- ITSC 1305 Introduction To Pc Operating Systems
- IMED 1316 Web Design I
- IMED 2315 Web Design II
- CPMT 1303 Intro to Computer Technology (May be used as elective if student takes COSC1301 for degree requirement)
- COSC 1301 Intro to Computing (May be used as elective if student takes CPMT 1303 for degree requirement)
- COSC 1437 Programming Fundamentals II
- COSC 2425 Computer Organization
- COSC 2436 PROGRAMMING FUNDAMENTALS III
- ITSC 2321 Integrated Software Apps II
- ITSW 1304 Introduction to Spreadsheets
- ITSE 1359 Introduction to Scripting Languages
- ITNW 2312 Routers
- ELPT 2319 Programmable Logic Controllers I
- POFT 1391 Special Topics: Artificial Intelligence for Administrative Use I
- POFI 1391 Special Topics: Artificial Intelligence for Administrative Use II
- ITSC 2321 Integrated Software Applications II
- ITMT 2305 Designing and Implementing a Server Infrastructure
- GAME 2349 Artificial Intelligence Programming II
- ITSE 1391 Special Topics: Advanced AI Programming
- ITSY 2343 Computer System Forensics
- ITSY 2301 Firewalls and Network Security Design
- ITSY 2342 Incident Response & Handling
- ITSY 1342 Information Technology Security

- ITSY 2330 Intrusion Detection
- ITSY 2345 Network Defense and Countermeasures

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core and elective requirements.

Certificate Requirements

Computer Network Administrator - Certificate

Computer Network Administrator Certificate Curriculum

Subject	Semester Hours
CPMT 1303 (Intro to Computer Technology) or COSC 1301 (Introduction to Computing)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1354 (Implementing and Supporting Servers)	3
CPMT 1345 (Computer Systems Maintenance)	3
CPMT 2350 (Industry Certification Preparation)	3
ITSC 1316 (Linux Installation and Configuration)	3
ITSY 1300 (Fundamentals of Information Security)	3
ITMT 2305 (Designing and Implementing a Server Infrastructure) or ITNW 1351 (Fundamentals of Wireless LANs)	3
CPMT 1349 (Computer Networking Technology) (Capstone)	3
Total:	**30**

Capstone Experience: All students must complete the capstone course CPMT 1349

Computer Support Technician - Certificate

Computer Support Technician Certificate Curriculum

Subject	Semester Hours
CPMT 1303 (Intro to Computer Technology) or COSC 1301 (Introduction to Computing)	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 1311 (Intro to Computer Maintenance)	3
ITNW 1354 (Implementing and Supporting Servers)	3
CPMT 1345 (Computer Systems Maintenance)	3
CPMT 2350 (Industry Certification Preparation) (Capstone)	3
Total:	**18**

Capstone Experience: All students must complete the capstone course CPMT 2350

Skills Award Requirements

Computer Maintenance & Networking Support Occupational Skills Award

This certificate will enable a student to transfer to a four-year college with the basic core courses in Information Technology.

Computer Maintenance & Networking Support Occupational Skills Award Curriculum

Subject	Semester Hours
CPMT 1311 (Intro Computer Maintenance)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITNW 1325 (Networking Fundamentals)	3
CPMT 2345 (Computer Systems Troubleshooting) or CPMT 2350 (Advanced Industry Certification Prep)	3
Total:	**12**

Computer Science/Computer Information Systems

Overview

The **Associate of Science (AS) Degree in Computer Science/Computer Information** 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 a faculty advisor in the Grayson Computer Science department and with the university/college of their choice to determine which courses should be taken for their bachelor's degree in their desired major.

AS Degree Requirements

Associate of Science - Computer Science/Computer Information Systems

The Associate of Applied Science Degree requires that TSI requirements are met.

Computer Science/Computer Information Systems AS Curriculum

Subject	Semester Hours
COSC 1336 (Programming Fundamentals I)	3
HUMA 1301, PHIL 1301, PHIL 1304 or PHIL 2306	3
ENGL 1301 (Composition I)	3
HIST 1301 (United States History I)	3
MATH 1314 (College Algebra)	3
COSC 1437 (Programming Fundamentals II)	4
ENGL 1302, ENGL 2311 Or SPCH 1321	3
MATH 2312 (Pre-Calculus Math)	3
HIST 1302 (United States History II)	3
ARTS 1301, DRAMA 1310 or MUSI 1306	3
COSC 2436 (Programming Fundamentals III)	4
MATH 2413 (Calculus I)	4
GOVT 2305 (Federal Government) or GOVT 2306 (Texas Government)	3
Life and Physical Sciences Core	3
Life and Physical Sciences Lab (CAO)	1
COSC 2425 (Computer Organization and Machine Language)	4
GOVT 2306 (Texas Government) or GOVT 2305 (Federal Government)	3
ECON 2301 (Principles of Macroeconomics) or ECON 2302 (Principles of Microeconomics)	3
Life and Physical Sciences Core	3
Life and Physical Sciences Lab (CAO)	1
total:	**60**

Please review your Student Planner or contact your Success Coach/Faculty Advisor to review which courses may be used to fill core and elective requirements.

COSC 1336 should be taken in the first semester.

Life and Physical Sciences Core Options: (The choice should be approved by the Computer Science Faculty Mentor)

- BIOL 1306/1106
- BIOL 1307/1107
- CHEM 1311/1111
- CHEM 1312/1112
- PHYS 1301/1101
- PHYS 1302/1102
- PHYS 2325/2125
- PHYS 2326/2126

Cybersecurity

Overview

The **Associate of Applied Science (AAS) Degree in Cybersecurity Administration** and the **Cybersecurity Technician Certificate** prepare students for a career in cybersecurity management and the support tasks relating to network management, system administration, technical support, hardware/software installation, and equipment repair.

The **Cybersecurity Support Occupational Skills Award** provides students with fundamental skills to enter the workforce. This is a stackable award that leads to the Cybersecurity Technician Certificate and the Cybersecurity AAS degree.

The program graduate will be able to design and install secure network systems based on customer requirements, monitor and maintain network traffic and security, and maintain network hardware and software.

Courses and hands-on labs in this program will assist the graduate in preparing to take a variety of Cisco, Microsoft, and CompTIA certification examinations.

The Associate of Applied Science Degree (AAS) requires that TSI requirements are met.

Note:

Most careers in the Cybersecurity field require a criminal background check, thus your placement in internships, and/or licensure/certification opportunities may be impacted. If you have any questions or concerns, please contact your program director and/or check with your chosen licensing/certification entity, to determine your status.

AAS Degree Requirements

Associate of Applied Science - Cybersecurity Administration

AAS in Cybersecurity Curriculum

Subject	Semester Hours
ENGL 1301 (Composition I)	3
ITNW 1354 (Implementing and Supporting Servers)	3
ITSY 1300 (Fundamentals of Information Security)*	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
ITSY 1342 (Information Technology Security)	3
ITSY 2342 (Incident Response and Handling)	3
ITSY 2330 (Intrusion Detection)	3
ITSC 1316 (Linux Installation and Configuration)	3
ITSC 1342 (Shell Programming) or ITSE 1359 (Introduction to Scripting Languages)	3
Mathematics/Life and Physical Sciences Core	3
ITSY 2345 (Network Defense and Countermeasures)	3
ITSY 2343 (Computer System Forensics)	3
SPCH 1311 (Introduction to Speech Communication)	3
ITNW 1351 (Fundamentals of Wireless LANs)	3
Language, Philosophy, and Culture/Creative Arts Core	3
ITNW 2355 (Server Virtualization)	3
CPMT 1349 (Computer Networking Technology)	3
ITSY 2301 (Firewalls and Network Security Design (Capstone))	3
ITSC 2325 (Advanced Linux)	3
Social and Behavioral Sciences Core	3
total:	**60**

* = Prerequisite for all other ITSY courses.

Please review your Student Planner or contact your Success Coach/Faculty Advisor to review which courses may be used to fill core and elective requirements.

Certificate Requirements

Cybersecurity Technician - Certificate

Cybersecurity Technician Certificate Curriculum

Subject	Semester Hours
ITNW 1354 (Implementing and Supporting Servers)	3
ITSY 1300 (Fundamentals of Information Security)*	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
ITSY 1342 (Information Technology Security)	3
ITSY 2342 (Incident Response and Handling)	3
ITSY 2330 (Intrusion Detection)	3
ITSC 1316 (Linux Installation and Configuration)	3
ITSE 1359 (Introduction to Scripting Languages)	3
ITSY 2345 (Network Defense and Countermeasures)	3
ITSY 2343 (Computer System Forensics)	3
ITNW 1351 (Fundamentals of Wireless LANs)	3
ITNW 2355 (Server Virtualization)	3
ITSY 2301 (Firewalls and Network Security Design (Capstone))	3
ITSC 2325 (Advanced Linux)	3
Total:	**42**

* = Prerequisite for all other ITSY courses.

Award Requirements

Cybersecurity Support - Occupational Skills Award

Cybersecurity Support Occupational Skills Award Curriculum

Subject	Semester Hours
ITNW 1325 (Fundamentals of Networking Technologies)	3
ITNW 1354 (Implementing & Supporting Servers)	3
ITSY 1300 (Fundamentals of Information Security)*	3
ITSC 1342 (Information Technology Security)	3
Total:	**12**

* = Prerequisite for all other ITSY courses.

Distillation Science

Overview

Humans have been brewing alcohol since the dawn of recorded history, and distilling alcohol stretches back over a thousand years. Distilling plays a major role in the Texas and U.S. economy. Industries as diverse as farming, tourism, construction, and retail all rely on, and contribute to alcohol production.

This multidisciplinary certificate is designed to complement an existing major in a related field, by providing a background understanding of topics related to the distilling industry—the science, the business, and the history, as well as an internship—students need to become competitive in the marketplace.

Students who want to work in the business side of the industry might take a business degree and then the extra coursework for this certificate. People who want to be distillers might take a biology or chemistry degree, while someone interested in supplying the industry might take an agriculture degree, or someone looking to design bottles or labels might take a graphic or industrial design degree.

The distilling program has both undergraduate certificates and associate degree option to complement existing fields of study: the **Associate of Applied Science (AAS) Degree in Distillation Science**, the **Distillation Science Certificate**, and the **Cider and Brandy Production Occupational Skills Award**. Follow the links above to find out how to add this new and exciting certificate to your degree portfolio.

AAS Degree Requirements

Associate of Applied Science - Distillation Science

AAS in Distillation Science Curriculum

Subject	Semester Hours
FDST 1271 (Distillery Operations)	2
FDST 1272 (Vodka Production)	2
FDST 2374 (Whiskey Production)	3
Social and Behavioral Science Core	3
Mathematics/Life and Physical Science Core	3
Elective	3
FDST 1273 (Rum Production) or FDST 1274 (Cider Production)	2
FDST 2372 (Gin & Absinthe Production)	3
FDST 2373 (Brandy Production) or FDST 2375 (Tequila Production)	3
Language, Philosophy, and Culture/Creative Arts/Communication Core	3
Component Area Option Core	3
Component Area Option Core	3
Elective	3
Elective	3
Elective	3
Elective	3
Elective	3
Elective	3
Elective	3
Elective	3
Elective	3
Total:	**60**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Certificate Requirements

Distillation Science - Certificate

Distillation Science Certificate Curriculum

Subject	Semester Hours
FDST 1271 (Distillery Operations)	2
FDST 1272 (Vodka Production)	2
FDST 2374 (Whiskey Production)	3
FDST 1273 (Rum Production) or FDST 1274 (Cider Production)	2
FDST 2372 (Gin & Absinthe Production)	3
FDST 2373 (Brandy Production) or FDST 2375 (Tequila Production)	3
Component Area Option Core	3
Total:	**18**

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Cider and Brandy Production Occupational Skills Award

Cider and Brandy Production Occupational Skills Awards Curriculum

Subject	Semester Hours
FDST 2371 (Grape and Wine Chemistry)	3
FDST 2286 (Internship-Food Science)	2
FDST 1274 (Cider Production)	2
FDST 2373 (Brandy Production)	3
Total:	**10**

Engineering

Overview

For students planning to pursue an Engineering major and transfer to a four-year institution, as a general rule, students should follow the **Associate of Science (AS) Degree in Engineering** at Grayson College as part of the Science and Technology Career Pathway. All students are advised to consult 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 Associate of Science Degree requires that TSI requirements are met.

AS Degree Requirements

Associate of Science - Engineering

The Associate of Science Degree requires that TSI requirements are met.

AS in Engineering Curriculum

Subject	Semester Hours
MATH 2312 (Pre-calculus Math)	3
ENGL 1301 (Composition I)	3
Creative Arts Core	3
ENGL 1302 (Composition II)	3
Engineering Elective	2
MATH 2413 (Calculus I)	4
PHYS 2325 (University Physics I)	3
PHYS 2125 (University Physics Lab I)	1
HIST 1301 (US History I)	3
HIST 1302 (US History II)	3
Engineering Elective	3
MATH 2414 (Calculus II)	4
PHYS 2326 (University Physics II)	3
PHYS 2126 (University Physics Lab II)	1
GOVT 2305 (Federal Government)	3
Engineering Elective	3
Engineering Elective	3
Engineering Elective	3
GOVT 2306 (Texas Government)	3
Social and Behavioral Science Core	3
Language, Philosophy, and Cultural Core	3
Total:	**60**

Please review your Student Planner or contact your Success Coach/Faculty Advisor to review which courses may be used to fill core and elective requirements.

Electives

- ENGR 1201 Introduction to Engineering
- ENGR 1304 Engineering Graphics I
- ENGR 2301 Engineering Mechanics - Statics
- ENGR 2302 Engineering Mechanics - Dynamics
- ENGR 2305 Electrical Circuits I
- ENGR 2105 Electrical Circuits I Lab
- ENGR 2332 Mechanics of Materials
- COSC 1336 Programming Fundamentals I
- MATH 2318 Linear Algebra

- MATH 2320 Diff Eq
- MATH 2413 Calc 1
- MATH 2414 Calc 2
- MATH 2415 Calc 3
- CHEM 1311 Gen Chem I
- CHEM 1111 Gen Chem I Lab
- CHEM 1312 Gen Chem II
- CHEM 1112 Gen Chem II Lab
- PHYS 2325 Univ Physics 1
- PHYS 2326 Univ Physics 2
- PHYS 2125 Univ Physics Lab 1
- PHYS 2126 Univ Physics Lab 2

Field of Study

Civil Engineering Field of Study

Subject	Semester Hours
MATH 2413 (Calculus 1)	4
MATH 2414 (Calculus 2)	4
MATH 2415 (Calculus 3)	4
MATH 2320 (Differential Equations)	3
CHEM 1309 (General Chemistry Engineering Majors)	3
CHEM 1109 (General Chemistry Engineering Majors Lab)	1
PHYS 2325 (University Physics 1)	3
PHYS 2125 (University Physics Lab 1)	1
PHYS 2326 (University Physics 2)	3
PHYS 2126 (University Physics Lab 2)	1
ENGR 1304 (Engineering Graphics 1)	3
ENGR 2301 (Engineering Mechanics-Statics)	3
ENGR 2302 (Engineering Mechanics-Dynamics)	3
ENGR 2332 (Mechanics of Materials)	3
Total:	**39**

Electrical Engineering Field of Study

Subject	Semester Hours
MATH 2413 (Calculus 1)	4
MATH 2414 (Calculus 2)	4
MATH 2415 (Calculus 3)	4
MATH 2320 (Differential Equations)	3
PHYS 2325 (University Physics 1)	3
PHYS 2125 (University Physics Lab 1)	1
PHYS 2326 (University Physics 2)	3
PHYS 2126 (University Physics Lab 2)	1
COSC 1320 (C Programming)	3
ENGR 2305 (Electrical Circuits 1)	3
ENGR 2105 (Electrical Circuits 1 Lab)	3
Total:	**30**

Mechanical Engineering Field of Study

Subject	Semester Hours
MATH 2413 (Calculus 1)	4
MATH 2414 (Calculus 2)	4
MATH 2415 (Calculus 3)	4
CHEM 1309 (General Chemistry Engineering Majors)	3
CHEM 1109 (General Chemistry Engineering Majors Lab)	1

Subject	Semester Hours
PHYS 2325 (University Physics 1)	3
PHYS 2125 (University Physics Lab 1)	1
PHYS 2326 (University Physics 2)	3
PHYS 2126 (University Physics Lab 2)	1
ENGR 2301 (Engineering Mechanics-Statics)	3
ENGR 2302 (Engineering Mechanics-Dynamics)	3
ENGR 2305 (Electrical Circuits 1)	3
ENGR 2332 (Mechanics of Materials)	3
Total:	**36**

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 (AS) Degree in Mathematics** as part of the Science and Technology Career Pathway. 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. The Associate of Science (AS) Degree requires that TSI requirements are met.

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 faculty and 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.

AS Degree Requirements

Associate of Science - Mathematics

AS in Mathematics Curriculum

Subject	Semester Hours
MATH 2312 (Pre-Calculus Math)	3
ENGL 1301 (Composition I)	3
Creative Arts Core	3
ENGL 1302 (Composition II)	3
Language, Philosophy, and Cultural Core	3
MATH 2413 (Calculus I)	4
COSC 1336 (Programming Fundamentals I)	3
HIST 1301 (United States History I)	3
Social and Behavioral Sciences Core	3
HIST 1302 (United States History II)	3
MATH 2414 (Calculus II)	4
MATH 2318 (Linear Algebra)	3
PHYS 2325 (University Physics 1) or CHEM 1311 (General Chemistry 1)	3
PHYS 2125 (University Physics Lab 1) or CHEM 1111 (General Chemistry Lab 1)	1

Subject	Semester Hours
GOVT 2305 (Federal Government)	3
Mathematics Elective	1
MATH 2415 (Calculus III)	4
MATH 2320 (Differential Equations)	3
PHYS 2326 (University Physics II) or CHEM 1312 (General Chem 2)	3
PHYS 2126 (University Physics Lab 2) or CHEM 1112 (General Chem Lab 2)	1
GOVT 2306 (Texas Government)	3
Total:	**60**

Students are encouraged to select electives that meet the graduation requirement of their intended four year transfer institution.

Please review your Student Planner or contact your Success Coach/Faculty Advisor to review which courses may be used to fill core and elective requirements.

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. This program is part of the Science, Technology, Engineering and Mathematics Pathway and offers an **Associate of Applied Science (AAS) Degree in Viticulture and Enology,** a **Viticulture Certificate** and an **Enology Certificate**. 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 three-acre vineyard, an extensive wine laboratory, and an instructional winery. All serve as 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 College's Learning Management System. 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. 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 with 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 on topics of specific interest to the grape and wine industry, as well as programming that is geared toward new and future industry members. Upcoming outreach programs can be found on the Viticulture and Enology program Continuing Education page.

Course Requirements

Admission into the Viticulture & Enology program requires that you have a high school diploma or an equivalent. The Associate of Applied Science (AAS) Degree requires that TSI requirements are met.

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 - Viticulture and Enology

AAS in Viticulture and Enology Curriculum

Subject	Semester Hours
FDST 1323 (Principles of Viticulture I)	3
Social and Behavioral Sciences Core	3
FDST 1370 (Grapevine Biology)	3
ENGL 1301 (Composition I)	3
Mathematics/Life and Physical Sciences Core	3
FDST 2320 (Principles of Viticulture II)	3
MRKG 1191 (Wine Marketing)	1
Language, Philosophy, and Culture/Creative Arts Core	3
Mathematics/Life and Physical Sciences Core	3
Social and Behavioral Sciences Core	3
FDST 1320 (Principles of Enology I)	3

Subject	Semester Hours
Language, Philosophy, and Culture/Creative Arts Core	3
SPCH 1311, sPCH 1315, or SPCH 1321	3
FDST 2371 (Grape and Wine Chemistry)	3
FDST 2433 (Wine Types and Sensory Evaluation)	4
FDST 2319 (Principles of Enology II)	3
FDST 2330 (Analysis of Must and Wine)	3
Elective	5
FDST 2286 (Internship-Food Science)	2
Social and Behavioral Sciences Core	3
Total:	**60**

Electives must be approved by the program coordinator.

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Certificate and Award Requirements

Viticulture - Certificate

Viticulture Certificate Curriculum

Subject	Semester Hours
FDST 1323 (Principles of Viticulture I)	3
FDST 1370 (Grapevine Biology)	3
Mathematics/Life and Physical Sciences Core	3
FDST 2320 (Principles of Viticulture II)	3
FDST 2371 (Grape and Wine Chemistry)	3
FDST 2286 (Internship-Food Science)	2
Total:	**17**

Please review your Student Planner or contact your Success Coach/Faculty Mentor to review which courses may be used to fill core requirements.

Enology - Certificate

Enology Certificate Curriculum

Subject	Semester Hours
FDST 1320 (Principles of Enology I)	3
FDST 2371 (Grape and Wine Chemistry)	3
Mathematics or Physical Sciences Core	3
FDST 2330 (Analysis of Must and Wine)	3
FDST 2433 (Wine Types and Sensory Evaluation)	3
FDST 2319 (Principles of Enology II)	3
FDST 2286 (Internship-Food Science)	2
Total:	**21**

Viticulture and Enology Occupational Skills Award

Viticulture and Enology Occupational Skills Award Curriculum

Subject	Semester Hours
FDST 1323 (Principles of Viticulture I)	3
FDST 1370 (Grapevine Biology)	3
FDST 2320 (Principles of Viticulture II)	3
FDST 1320 (Principles of Enology I)	3

Subject	Semester Hours
Total:	**12**

Course Descriptions

The numbers in parentheses following course titles explain the weekly hours required during a regular sixteen week semester. The first digit indicates the amount of lecture hours, the second digit indicates the laboratory or clinical hours, and the third digit indicates the credit hours earned for the course. For example, PHED 1110, General Activities (0-3-1) has no lecture hours, three laboratory hours, and one hour credit. If only one number is present, that number indicates contact hours.

ACCT - Accounting

ACCT 2301. Principles of Financial Accounting. (2-3-3). L.

This course is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions. Students will use recorded financial information to prepare a balance sheet, income statement, statement of cash flows, and statement of shareholders' equity to communicate the business entity's results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities, and owners' equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS).

Upon successful completion of this course, students will:

1. Use basic accounting terminology and the assumptions, principles, and constraints of the accounting environment.
2. Identify the difference between accrual and cash basis accounting.
3. Analyze and record business events in accordance with U.S. generally accepted accounting principles (GAAP).
4. Prepare adjusting entries and close the general ledger.
5. Prepare financial statements in an appropriate U.S. GAAP format, including the following: income statement, balance sheet, statement of cash flows, and statement of shareholders' equity.
6. Analyze and interpret financial statements using financial analysis techniques.
7. Describe the conceptual differences between International Financial Reporting Standards and U.S. generally accepted accounting principles.

ACCT 2302. Principles of Managerial Accounting. (2-3-3). L.

This course is an introduction to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company. The emphasis is on the identification and assignment of product costs, operational budgeting and planning, cost control, and management decision making. Topics include product costing methodologies, cost behavior, operational and capital budgeting, and performance evaluation.

Upon successful completion of this course, students will:

1. Identify the role and scope of financial and managerial accounting and the use of accounting information in the decision-making process of managers.
2. Define operational and capital budgeting, and explain its role in planning, control, and decision-making.
3. Prepare an operating budget, identify its major components, and explain the interrelationships among its various components.
4. Explain methods of performance evaluation.
5. Use appropriate financial information to make operational decisions.
6. Demonstrate use of accounting data in the areas of product costing, cost behavior, cost control, and operational and capital budgeting for management decisions.

Prerequisites:

- ACCT 2301 (Principles of Financial Accounting)

ACNT - Accounting (WECM)

ACNT 1311. Introduction to Computerized Accounting. (2-2-3). L.

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

Prerequisites:

- ACCT 2301 (Principles of Financial Accounting)

ACNT 1313. Computerized Accounting Applications. (2-2-3). L.

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

Prerequisites:

- ACCT 2301 (Principles of Financial Accounting)

ACNT 1329. Payroll and Business Tax Accounting. (3-1-3). L.

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

Prerequisites:

- ACCT 2301 (Principles of Financial Accounting)

ACNT 1331. Federal Income Tax: Individual. (3-0-3). L.

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

Prerequisites:

- ACCT 2301 (Principles of Financial Accounting)

ACNT 2302. Accounting Capstone. (3-0-3). L.

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.

Restrictions:

- Only AAS Accounting majors may enroll In this course. This course should be taken during the semester of graduation.

ACNT 2309. Cost Accounting. (3-0-3). L.

Budgeting, cost analysis, and cost control systems using traditional and contemporary costing methods and theories in decision making.

Prerequisites:

- ACCT 2301 (Principles of Financial Accounting)

AGAH - Animal Husbandry (WECM)

AGAH 1301. Animal Science. (3-1-3). L.

An introductory survey of the scientific principles and applied practices related to livestock production. Topics include genetics,animal breeding and selection, anatomy and physiology, nutrition, reproduction, health, and marketing of livestock and livestock products.

AGAH 1341. Sheep and Goat Production. (3-0-3). L.

An overview of the sheep and goat industry. Topics include the organization and operation of sheep and goat enterprises, selection, breeding, reproduction, health, nutrition, management, and marketing of sheep and goats and their products.

AGAH 1347. Animal Reproduction. (3-0-3). L.

Study of organs, functions, endocrinology, and common management practices related to reproduction.

AGAH 1353. Beef Cattle Production. (3-0-3). L.

An overview of the beef cattle industry. Topics include the organization and operation of beef cattle enterprises, selection breeding, reproduction, health, nutrition, management, and marketing.

AGAH 2313. Principles of Feed and Feeding. (3-0-3). L.

Study of the role and application of feed nutrients and additives. Topics include comparative aspects of digestion, absorption, and metabolism of nutrients. Emphasis on identification of nutrient requirements and formulation of dietary feeding regimens.

AGCR - Agriculture (WECM)

AGCR 1307. Range Management. (3-0-3). L.

Practical problems of managing native pastures and rangelands. Includes rangeland ecology, stocking rates, rotation systems, toxic plants, range reseeding, brush control, and ecological and physiological responses of range vegetation to grazing.

AGCR 1403. Crop Science. (3-1-4). L.

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.

AGCR 2305. Entomology. (3-0-3). L.

Study of the morphology, physiology, and classification of the common insect orders and related arthropods with emphasis on species of economic or biological importance. Emphasis on integrated pest management concepts and proper use of pesticides.

AGCR 2313. Soil and Water Conservation Management. (3-0-3). L.

Study of physical and chemical soil deterioration and loss, water conservation, and principles for protection and maintenance of these resources. Topics include plant/water relationships, water conservation methods, basic terrace engineering principles, sediment loss, and land use plans.

AGEQ - Equine Science (WECM)

AGEQ 1301. Equine Behavior and Training I. (2-3-3). L.

Instruction in basic equine behavior and training methods. Topics include anatomy and physiology, behavior, safety, health care management, and training methods.

AGEQ 1311. Equine Science I. (3-0-3). L.

An introduction to the horse industry. Includes history, organization and operation of equine enterprises, selection, breeds, breeding, reproduction, health, nutrition, management, and marketing.

AGEQ 1350. Equine Reproduction. (3-0-3). L.

Reproductive anatomy, physiological functions, and common management practices related to equine reproduction and facilities.

AGEQ 2310. Equine Business Management. (3-1-3). L.

Management of the equine business. Includes record keeping, insurance and liability, show management, equine promotion and sales, and employer relationships.

AGMG - Agriculture Business and Management (WECM)

AGMG 1164. Practicum–Farm/Farm and Ranch Management. (0-7-1). L.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

AGMG 1300. Agricultural Policies, Safety and Codes. (3-0-3). L.

Study of safety standards, government regulations, and codes as they apply to agriculture. Emphasis on the application of current safety and health standards, and compliance with state and federal regulations.

AGMG 1311. Introduction to Agribusiness. (2-3-3). L.

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.

AGMG 1318. Introduction to Agricultural Economics. (3-0-3). L.

Study of the fundamental economic principles and their application to the problems of the industry of agriculture.

AGMG 1344. Agricultural Records Management. (3-0-3). L.

Examination of the principles of agricultural records and bookkeeping with emphasis on utilization and interpretation of farm and ranch accounts.

AGMG 2186. Internship, Agricultural Business and Management, General. (0-3-1). L.

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.

AGMG 2301. Livestock Business Management. (3-0-3). L.

Instruction in contracts, leases, laws and regulations, estate planning, and applications of personnel and management principles.

AGMG 2306. Livestock and Meat Marketing. (3-0-3). L.

Exploration of the relationship of livestock production to marketing. Topics include trends, consumption, processing, distribution, governmental regulation, transportation, and animal health.

AGMG 2312. Marketing of Agricultural Products. (3-0-3). L.

Study of operations in the movement of agricultural commodities from producer to consumer including the essential marketing functions of buying, selling, transporting, storing, financing, standardizing, pricing, and risk bearing.

AGMG 2316. Agricultural Finance. (3-0-3). L.

Examination of the acquisition and use of capital in agriculture. Topics include fundamental record-keeping principles, financial statements, cash flow, and other instruments of financial analysis.

AGRI - Agriculture

AGRI 1107. Agronomy Lab. (0-3-1). L.

This laboratory-based course accompanies AGRI 1307 Agronomy (lecture). Laboratory activities will reinforce the fundamental principles and practices in the development, production, and management of field crops including growth and development, climate, plant requirements, pest management, and production methods.

Corequisites:

- AGRI 1307 (Agronomy (Lecture))

AGRI 1115. Horticulture Lab. (0-2-1). L.

This laboratory-based course accompanies AGRI 1315. Laboratory activities will reinforce the structure, growth, and development of horticultural plants. Examination of environmental effects, basic principles of reproduction, production methods ranging from outdoor to controlled climates, nutrition, and pest management.

Corequisites:

- AGRI 1315 (Horticulture (Lecture))

AGRI 1119. Introductory Animal Science Lab. (0-2-1). L.

This laboratory-based course accompanies AGRI 1319 Introductory Animal Science (lecture). Laboratory activities will reinforce scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock.

Corequisites:

- AGRI 1319 (Introductory Animal Science)

AGRI 1131. The Agricultural Industry. (1-1-1). L.

Overview of agriculture and the American agricultural system, including an examination of career opportunities and requirements.

AGRI 1307. Agronomy (Lecture). (3-0-3). L.

Principles and practices in the development, production, and management of field crops including growth and development, climate, plant requirements, pest management, and production methods.

Corequisites:

- AGRI 1107 (Agronomy Lab)

AGRI 1309. Computers in Agriculture. (3-0-3). L.

Survey of the use of computers in agricultural applications.

AGRI 1315. Horticulture (Lecture). (3-0-3). L.

Structure, growth, and development of horticultural plants. Examination of environmental effects, basic principles of reproduction, production methods ranging from outdoor to controlled climates, nutrition , and pest management.

Corequisites:

- AGRI 1115 (Horticulture Lab)

AGRI 1319. Introductory Animal Science. (3-0-3). L.

Scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock.

Corequisites:

- AGRI 1119 (Introductory Animal Science Lab)

AGRI 1325. Marketing and Agricultural Products. (3-0-3). L.

Essential marketing functions in the movement of agricultural commodities and products from producer to consumer.

AGRI 1329. Principles of Food Science. (3-1-3). L.

Biological and scientific aspects of modern industrial food supply systems. Food classification, modem processing, nutritional quality, and quality control.

AGRI 2317. Intro to Agricultural Economics. (3-0-3). L.

Fundamental economic principles and their application in the agricultural industry.

AGRI 2321. Livestock Evaluation. (2-4-3). L.

Evaluation and grading of market cattle, swine, sheep, and goats and their carcasses and wholesale cuts. Emphasis will be placed on value determination. Selection and evaluation of breeding cattle, sheep, swine, and goats with emphasis on economically important traits.

AGRI 2330. Wildlife Conservation and Management. (3-1-3). L.

Principles and practices used in the production and improvement of wildlife resources. Aesthetic, ecological, and recreational uses of public and private lands.

ARTC - Commercial Art (WECM)

ARTC 1325. Introduction to Computer Graphics. (2-3-3). L.

A survey of computer design concepts, terminology, processes, and procedures. Topics include computer graphics hardware, electronic images, electronic publishing, vector-based graphics, and interactive multimedia.

ARTV 1351. Digital Video. (2-3-3). L.

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

ARTS - Studio Art & Art History

ARTS 1301. Art Appreciation. (3-0-3). L.

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. RW.

ARTS 1303. Art History I. (3-0-3). L.

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

ARTS 1304. Art History II. (3-0-3). L.

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

ARTS 1311. Design I. (1-5-3). L.

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

ARTS 1312. Design II. (1-5-3). L.

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

ARTS 1313. Foundations of Art. (3-0-3). L.

Introduction to the creative media designed to enhance artistic awareness and sensitivity through the creative and imaginative use of art materials and tools. Includes art history and culture through the exploration of a variety of art works with an emphasis on aesthetic judgment and growth. (RW)

Learning Outcomes:

1. Create varied works in both two and three-dimensional media using informed aesthetic and conceptual strategies.
2. Identify and apply the elements of art and principles of design.
3. Demonstrate an understanding of the impact of arts on culture through history.
4. Analyze and critique both works verbally and/or in writing.
5. Demonstrate an appropriate level of professional practice, including safety, craft, and presentation

ARTS 1316. Drawing I. (1-5-3). L.

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.

ARTS 1317. Drawing II. (1-5-3). L.

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.

Prerequisites:

- ARTS 1316 (Drawing I)

ARTS 1325. Drawing & Painting. (1-5-3). AL.

Drawing and painting for non-art majors.

ARTS 2311. Design III (Color Theory). (1-5-3). L.

Studio art course that is a theoretical and practical study of color and composition in art and design. The course consists of studio-based projects using the formal and conceptual aspects of color. The course also examines the functions of color in art from different historical and cultural perspectives.

ARTS 2316. Painting I. (1-5-3). L.

Studio art course that introduces the fundamental principles, materials, and techniques of painting.

ARTS 2317. Painting II. (1-5-3). L.

Studio art course that furthers the study of the principles, materials, and techniques of painting.

Prerequisites:

- ARTS 2316 (Painting I)

ARTS 2323. Life Drawing. (1-5-3). L.

Studio art course that introduces the analytic study of the human form and the figure's potential for compositional and expressive use in drawing.

ARTS 2326. Sculpture. (1-5-3). L.

A studio art course that introduces the materials, processes, and issues pertaining to the making of three-dimensional objects and environments. The course explores the use of varied materials and techniques along with the formal and conceptual principles that form the basis of contemporary sculpture.

ARTS 2333. Printmaking I. (1-5-3). L.

A studio art course that introduces the materials, processes, and concepts pertaining to traditional and contemporary printmaking. The course explores the use of varied tools and techniques along with the formal and conceptual principles to create editioned and unique works

ARTS 2346. Ceramics I. (1-5-3). L.

A studio art course that introduces basic building, throwing, and other techniques as it relates to the design and production of ceramic sculpture and pottery.

ARTS 2347. Ceramics II. (1-5-3). L.

A studio art course that furthers the study of building, throwing, and other techniques as it relates to the design and production of ceramic sculpture and pottery.

Prerequisites:

- ARTS 2346 (Ceramics I)

ARTS 2348. Digital Media. (1-5-3). L.

Studio art course that introduces the potential of basic digital media manipulation and graphic creation. The course emphasizes still and time-based media.

ARTS 2366. Watercolor. (1-5-3). L.

Studio art course that introduces the fundamental principles, materials, and techniques of watercolor and other water-based media.

ARTS 2389. Academic Cooperative. (1-5-3). L.

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 studio art and/or art history.

BARB - Barber (WECM)

BARB 1402. Barber Styling I. (3-2-4). L.

Continued development in haircutting techniques and implementation of basic styling. Introduction to chemical reformation

BARB 1404. Introduction to Barber Styling. (2-5-4). L.

Basic techniques for hair cutting. Introduction to the related skills of shampooing and treatments, and of trimming beards and mustaches.

BARB 1442. Barber Styling II. (3-2-4). L.

Continuation of Barber Styling I with emphasis on intermediate hands-on application of skills.

BARB 2431. Advanced Barber Styling I. (3-2-4). L.

Advanced skills in all areas of haircutting, hairstyling and skincare. Introduction to hair coloring techniques.

BARB 2441. Advanced Barber Styling II. (2-6-4). L.

Continuation of Advanced Barber Styling I with further refinement of all skills and theory for licensure.

BCIS - Business Computer Information Systems

BCIS 1305. Business Computer Applications. (2-4-3). L.

Introduces and develops foundational skills in applying essential and emerging business productivity information technology tools. The focus of this course is on business productivity software applications, including word processing, spreadsheets, databases, presentation graphics, data analytics, and business-oriented utilization of the internet.

NOTE: A Microsoft Windows-based computer is required for this class. Chromebooks and MacBooks will not run the software required for this course.

Upon successful completion of this course, students will:

1. Describe the fundamentals of information technology concepts – hardware, software, security, and privacy.
2. Demonstrate proper file management techniques to manipulate electronic files and folders in local, network, and online environments.
3. Create business documents with word processing software using spelling and grammar check, format and layout, tables, citations, graphics, and mail merge.
4. Create business documents and analyze data with spreadsheet software using (1) tables, sorting, filtering, charts and graphics, pivot tables, macros; (2) statistical, financial, logical and look-up functions and formulas; and (3) add-ins.
5. Create business multimedia presentations with presentation software using templates, lists, groups, themes, colors, clip art, pictures, tables, transitions, animation, video, charts, and views.
6. Create databases and manage data with database software using tables, fields, relationships, indexes, keys, views, queries, forms, reports, and import/export functions.
7. Integrate business software applications.
8. Use web-based technologies to conduct ethical business research.
9. Use “goal seeking” and “what-if analysis” to solve problems and make adjustments/recommendations in a business environment.

BIOL - Biology

BIOL 1106. Biology I (Lab). (0-2-1). L.

This laboratory-based course accompanies Biology 1306, Biology for Science majors. 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.

College readiness in reading is required.

Corequisites:

- BIOL 1306 (Biology I)

BIOL 1107. Biology II (lab). (0-2-1). L.

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.

College readiness in reading is required.

Corequisites:

- BIOL 1307 (Biology II)

BIOL 1108. Biology Lab for Non-Science Majors I (lab). (0-2-1). L.

This laboratory-based course accompanies BIOL 1308 for non-science majors. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

College readiness in reading is required.

Corequisites:

- BIOL 1308 (Biology for Non-Science Majors I)

BIOL 1109. Biology Lab for Non-Science Majors II. (0-2-1). L.

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.

College readiness in reading is required.

Corequisites:

- BIOL 1309 (Biology for Non-Science Majors II)

BIOL 1306. Biology I. (3-0-3). L.

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, ecology, and scientific reasoning are included.

College readiness in reading and math is required. Recommended prerequisite of MATH 1314 or MATH 1414 with the successful completion of College Algebra or concurrent enrollment in higher-level mathematics.

Corequisites:

- BIOL 1106 (Biology I (Lab))

BIOL 1307. Biology II. (3-0-3). L.

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.

College readiness in reading and math is required. Recommended prerequisite of MATH 1314 or 1414 with the successful completion of College Algebra or concurrent enrollment in higher-level mathematics. It is recommended that BIOL 1306/1106 is taken before 1307/1107.

Corequisites:

- BIOL 1107 (Biology II (lab))

BIOL 1308. Biology for Non-Science Majors I. (3-0-3). L.

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

College readiness in reading is required.

Corequisites:

- BIOL 1108 (Biology Lab for Non-Science Majors I (lab))

BIOL 1309. Biology for Non-Science Majors II. (3-0-3). L.

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

College readiness in reading is required.

Corequisites:

- BIOL 1109 (Biology Lab for Non-Science Majors II)

BIOL 1322. Nutrition & Diet Therapy. (3-0-3). L.

This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge. Special emphasis is given to nutrients and nutritional processes including functions, food sources, digestion, absorption, and metabolism. Food safety, availability, and nutritional information including food labels, advertising, and nationally established guidelines are addressed.

College readiness in reading is required.

BIOL 2101. Anatomy & Physiology Lab I. (0-3-1). L.

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.

College readiness in reading is required.

Corequisites:

- BIOL 2301 (Anatomy and Physiology I (lecture))

BIOL 2102. Anatomy & Physiology Lab 2. (0-3-1). L.

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).

- College readiness in reading is required.
- Must have earned a “C” or better in BIOL 2301/2101

Prerequisites:

- BIOL 2101 (Anatomy & Physiology Lab I)
- BIOL 2301 (Anatomy and Physiology I (lecture))

Corequisites:

- BIOL 2302 (Anatomy and Physiology II)

BIOL 2120. Microbiology Lab for Non-Science Majors. (0-3-1). L.

This course covers basics of culture and identification of bacteria and microbial ecology. This course is primarily directed at prenursing and other pre-allied health majors and covers basics of microbiology. Emphasis is on medical microbiology, infectious diseases, and public health.

- College readiness in reading required.
- Must have earned a “C” or better in BIOL 2301/2101

Prerequisites:

- BIOL 2101 (Anatomy & Physiology Lab I)
- BIOL 2301 (Anatomy and Physiology I (lecture))

Corequisites:

- BIOL 2320 (Microbiology for Non-Science Majors)

BIOL 2121. Microbiology Lab for Science Majors. (0-3-1). L.

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.

Corequisites:

- BIOL 2321 (Microbiology for Science Majors)

BIOL 2301. Anatomy and Physiology I (lecture). (3-0-3). L.

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.

College readiness in reading is required.

Corequisites:

- BIOL 2101 (Anatomy & Physiology Lab I)

BIOL 2302. Anatomy and Physiology II. (3-0-3). L.

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.

- College readiness in reading is required.
- Must have earned a “C” or better in BIOL 2301/2101

Prerequisites:

- BIOL 2101 (Anatomy & Physiology Lab I)
- BIOL 2301 (Anatomy and Physiology I (lecture))

Corequisites:

- BIOL 2102 (Anatomy & Physiology Lab 2)

BIOL 2320. Microbiology for Non-Science Majors. (3-0-3). L.

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.

- College readiness in reading is required
- Must have earned a “C” or better in BIOL 2301/2101

Prerequisites:

- BIOL 2101 (Anatomy & Physiology Lab I)
- BIOL 2301 (Anatomy and Physiology I (lecture))

Corequisites:

- BIOL 2120 (Microbiology Lab for Non-Science Majors)

BIOL 2321. Microbiology for Science Majors. (3-0-3). L.

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.

BIOL 1311/BIOL 1111 (General Botany) and BIOL 1313/BIOL 1113 (General Zoology) may substitute for Biology I/ Biology II prerequisite sequence.

Prerequisites:

- BIOL 1106, BIOL 1107, BIOL 1306, BIOL 1307, CHEM 1111, CHEM 1311

Corequisites:

- BIOL 2121 (Microbiology Lab for Science Majors)

BIOL 2404. Anatomy & Physiology. (3-1-4). L.

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.

College readiness in reading is required.

BMGT - Business Management (WECM)

BMGT 1305. Communications in Management. (3-1-3). L.

Basic theory and processes of communication skills necessary for the management of an organization's workforce.

BMGT 1327. Principles of Management. (3-1-3). L.

Concepts, terminology, principles, theories, and issues in the field of management.

BMGT 1341. Business Ethics. (3-1-3). L.

Discussion of ethical issues, the development of a moral frame of reference, and the need for an awareness of social responsibility in management practices and business activities. Includes ethical corporate responsibility. (Capstone course for the Business and Management AAS degree. Take during the semester of graduation.)

BMGT 2309. Leadership. (3-1-3). L.

Leadership and its relationship to management. Prepares the student with leadership and communication skills needed to motivate and identify leadership styles. (Capstone course for the Business Foundation Certificate.)

BNKG - Banking (WECM)

BNKG 1366. Practicum (or Field Experience) – Banking and Financial Support Services. (0-24-3). L.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

BNKG 1391. Special Topics in Banking and Financial Support Services. (2-3-3). L.

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.

BUSG - Business and Commerce (WECM)

BUSG 1302. E-Business Management. (2-3-3). L.

Introduction to business. Includes the internet, infrastructure for electronic commerce, markup languages, web-based tools and software, security issues, and electronic payment systems. Also covers strategies for marketing, sales, and purchasing; legal, ethical, and tax issues; and management functions

BUSG 1303. Principles of Finance. (3-0-3). L.

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.

BUSG 1304. Financial Literacy. (2-3-3). L.

A study of the financial principles when managing financial affairs. Includes topics such as budgeting, retirement, property ownership, savings and investment planning.

BUSG 2305. Business Law/Contracts. (3-1-3). L.

Principles of law which form the legal framework for business activity including applicable statutes, contracts, and agency. (Capstone Course for the Business and Management Certificate)

BUSG 2309. Small Business Management/Entrepreneurship. (3-1-3). L.

Starting, operating, and growing a small business. Includes essential management skills, how to prepare a business plan, accounting, financial needs, staffing, marketing strategies, and legal issues.

BUSI - Business

BUSI 1301. Business Principles. (3-0-3). L.

This course provides a survey of economic systems, forms of business ownership, and considerations for running a business. Students will learn various aspects of business, management, and leadership functions; organizational considerations; and decision-making processes. Financial topics are introduced, including accounting, money and banking, and securities markets. Also included are discussions of business challenges in the legal and regulatory environment, business ethics, social responsibility, and international business. Emphasized is the dynamic role of business in everyday life. (BUSI 1301 is included in the Business Field of Study.)

Upon successful completion of this course, students will:

1. Identify major business functions of accounting, finance, information systems, management, and marketing.
2. Describe the relationships of social responsibility, ethics, and law in business.
3. Explain forms of ownership, including their advantages and disadvantages.
4. Identify and explain the domestic and international considerations for today's business environment: social, economic, legal, ethical, technological, competitive, and international.
5. Identify and explain the role and effect of government on business.
6. Describe the importance and effects of ethical practices in business and be able to analyze business situations to identify ethical dilemmas and ethical lapses.
7. Describe basic financial statements and show how they reflect the activity and financial condition of a business.
8. Explain the banking and financial systems, including the securities markets, business financing, and basic concepts of accounting.
9. Explain integrity, ethics, and social responsibility as they relate to leadership and management.
10. Explain the nature and functions of management.
11. Identify strengths, weaknesses, opportunities, and threats of information technology for businesses.

BUSI 2305. Business Statistics. (3-1-3). L.

Descriptive and inferential statistical techniques for business and economic decision making. Topics include the collection, description, analysis, and summarization of data; probability; discrete and continuous random variables; the binomial and normal distributions; sampling distributions; tests of hypotheses; estimation and confidence intervals; linear regression; and correlation analysis. Statistical software is used to analyze data throughout the course. (BUSI 2305 is included in the Business Field of Study.)

Upon successful completion of this course, students will:

1. Describe the random processes underlying statistical studies.
2. Calculate and use probability in solving business problems.
3. Compute descriptive statistics, construct graphs for data analysis, and interpret outcomes.
4. Compute and interpret measures of central tendency and dispersion.
5. Calculate expected values to evaluate multiple outcomes of a decision.
6. Describe, interpret, and apply discrete and continuous probability distributions.
7. Construct and interpret confidence intervals for means and proportions.
8. Formulate, perform, and interpret hypotheses tests (one and two population parameters).
9. Calculate, evaluate, and interpret simple linear correlation/regression.
10. Use statistical software to graph, compute, and analyze statistical data.

Prerequisites:

- MATH 1314 (College Algebra) **OR**
  MATH 1324 (Mathematics for Business and Social Sciences)
- BCIS 1305 (Business Computer Applications)

CDEC - Child Development (WECM)

CDEC 1313. Curriculum Resources for Early Childhood Programs. (3-1-3). L.

A study of the fundamentals of developmentally appropriate curriculum design and implementation in early care and education programs for children from birth through age eight. Field observation required.

Restrictions:

- Field experience required

CDEC 1317. Child Development Associate Training 1. (3-1-3). L.

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

CDEC 1319. Child Guidance. (3-1-3). L.

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 observation required.

Restrictions:

- Field experience required

CDEC 1321. The Infant and Toddler. (3-1-3). L.

A study of appropriate infant and toddler programs birth to age 3, including an overview of development, quality routines, learning environments, materials and activities, and teaching/guidance techniques.

CDEC 1322. Child Development Associate Training 2. (3-1-3). L.

A continuation of the study of the requirements for the Child Development Associate Credential (CDA). The six functional areas of study include safe, healthy learning environment, self, social and guidance.

CDEC 1323. Observation and Assessment. (3-1-3). L.

A study of observation skills, assessment techniques, and documentation of children's development. Field observation required.

Restrictions:

- Field experience required

CDEC 1330. Growth and Development: 6-14 Years. (3-0-3). L.

Principles of child growth and development from age six through fourteen years. Focus on physical, cognitive, social, and emotional domains of development.

CDEC 1335. Early Childhood Development: 3-5 Years. (3-1-3). L.

Principles of normal growth and development from three years through five years. Emphasizes physical, emotional, cognitive, and social development. Field observation required.

Restrictions:

- Field observation required.

CDEC 1339. Early Childhood Dev 0-3 Years. (3-0-3). L.

Principles of typical growth and development from conception through three years of age. Emphasizes physical, cognitive, and social and emotional development.

CDEC 1343. Independent Study in Child Development. (3-0-3). L.

Study of an approved career topic. Research, presentation of findings, and practical applications are emphasized as they relate to the selected topic.

CDEC 1356. Emergent Literacy Early Child. (3-1-3). L.

An exploration of principles, methods, and materials for teaching young children language and literacy through a play-based integrated curriculum to children from birth through age eight. Field observation required.

Restrictions:

- Field experience required

CDEC 1358. Creative Arts Early Child. (3-0-3). L.

An exploration of principles, methods, and materials for teaching music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking for children birth through age eight.

CDEC 1359. Children with Special Needs. (3-0-3). L.

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.

CDEC 2166. Practicum Childcare Provider (Capstone). (0-7-1). L.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

CDEC 2186. Internship Child Care Provider/Assistant. (0-4-1). L.

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.

CDEC 2264. Practicum-Child Care Provider. (2-1-2). L.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

CDEC 2304. Child Abuse and Neglect. (3-0-3). L.

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.

CDEC 2307. Math and Science for Early Childhood. (3-0-3). L.

An exploration of principles, methods, and materials for teaching children math and science concepts and process skills through discovery and play.

CDEC 2315. Diverse Cultural/Multilingual Education. (3-0-3). L.

An overview of diverse cultural and multilingual education including familial relationships, community awareness, diversity, and the needs of each and every child.

CDEC 2322. Child Development Associate Training 2. (3-1-3). L.

A continuation of the study of the requirements for the Child Development Associate Credential (CDA). The six functional areas of study include safe, healthy learning environment, self, social and guidance.

CDEC 2324. Child Dev Associate Training 3. (3-1-3). L.

Continuation of the requirements for the Child Development Associate credential CDA. The three functional areas of study include family, program management and professionalism

CDEC 2326. Administration of Programs for Children 1. (3-1-3). L.

Application of management procedures for early care education programs. Includes planning, operating, supervising, and evaluating programs. Topics cover philosophy, types of programs, policies, fiscal management, regulations, staffing, evaluation, and communication.

Restrictions:

- Field experience required.

CDEC 2328. Admin of Program Children 2. (3-0-3). L.

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.

Restrictions:

- Field Experience Required

CDEC 2336. Administration of Programs for Young Children III. (3-0-3). L.

An advanced study of the skills and techniques in administering early care and education programs.

CDEC 2340. Instructional Techniques for Children with Special Needs. (3-0-3). L.

Exploration of development and implementation of curriculum for children with special needs.

CDEC 2341. The School Age Child. (3-1-3). L.

A study of programs for the school age child, including an overview of development, learning environments, materials, activities and guidance techniques.

CDEC 2380. Cooperative Education Child-Care Provider Assistant - Capstone . (0-15-3). L.

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. Includes a lecture component. Field experience required.

Restrictions:

- Field experience required.

CDEC 2384. Cooperative Education - Child Development. (1-15-3). L.

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. Includes a lecture component.

CETT - Electrical Engineering Technology (WECM)

CETT 1003. DC Circuits. (96). L.

A study of the fundamentals of direct current including Ohm's law, Kirchhoff's laws and circuit analysis techniques.

CETT 1005. AC Circuits. (96). L.

A study of the fundamentals of alternating current including series and parallel AC circuits, phasors, capacitive and inductive networks, transformers, and resonance.

CETT 1025. Digital Fundamentals. (96). L.

An entry level course in digital electronics to include numbering systems, logic gates, Boolean algebra, and combinational logic.

CETT 1041. Solid State Circuits. (96). L.

A study of various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis.

CETT 1331. Programming for Discrete Electronic Devices. (2-4-3). L.

Introduction to a high level programming language. Includes structured programming and problem solving applicable to discrete electronic devices.

CETT 1403. DC Circuits. (3-3-4). L.

A study of the fundamentals of direct current including Ohm's law, Kirchhoff's laws and circuit analysis techniques.

CETT 1405. AC Circuits. (3-3-4). L.

A study of the fundamentals of alternating current including series and parallel AC circuits, phasors, capacitive and inductive networks, transformers, and resonance.

CETT 1425. Digital Fundamentals. (3-3-4). L.

An entry level course in digital electronics to include numbering systems, logic gates, Boolean algebra, and combinational logic.

CETT 1429. Solid State Devices. (3-3-4). L.

A study of diodes, transistor characteristics and other semiconductor devices, including analysis of static and dynamic characteristics, biasing techniques, and thermal considerations.

CETT 1441. Solid State Circuits. (3-3-4). L.

A study of various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis.

CHEF - Culinary Arts (WECM)

CHEF 1164. Practicum (or Field Experience), Culinary Arts/Chef Training. (0-10-1). L.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

CHEF 1301. Basic Food Preparation. (2-3-3). L.

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.

CHEF 1302. Principles of Healthy Cuisine. (2-3-3). L.

Introduction to the principles of planning, preparation, and presentation of nutritionally balanced meals. Alternative methods and ingredients will be used to achieve a healthier cooking style.

CHEF 1305. Sanitation and Safety. (3-0-3). L.

A 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.

CHEF 1310. Garde Manager. (2-3-3). L.

A study of cold foods and garnishes. Emphasis on design, techniques, and display of fine foods. Lab included.

Prerequisites:

- CHEF 1301 (Basic Food Preparation)
- CHEF 1305 (Sanitation and Safety)

CHEF 1314. A La Carte Cooking. (1-5-3). L.

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.

Prerequisites:

- CHEF 1301 (Basic Food Preparation)
- CHEF 1305 (Sanitation and Safety)

CHEF 1345. International Cuisine. (2-3-3). L.

The study of classical cooking skills associated with the preparation and service of international and ethnic cuisines. 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.

Prerequisites:

- CHEF 1301 (Basic Food Preparation)
- CHEF 1305 (Sanitation and Safety)

CHEF 2331. Advanced Food Preparation. (2-3-3). L.

Advanced concepts of food preparation and presentation techniques.

CHEM - Chemistry

CHEM 1109. General Chemistry for Engineering Majors (lab). (0-3-1). L.

Basic laboratory experiments supporting theoretical principles presented in CHEM 1309; introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports.

Corequisites:

- CHEM 1309 (General Chemistry for Engineering Majors (lecture))

CHEM 1111. General Chemistry Laboratory 1. (0-3-1). L.

Basic laboratory experiments supporting theoretical principles presented in CHEM 1311; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory report.

Corequisites:

- CHEM 1311 (General Chemistry I)

CHEM 1112. General Chemistry Laboratory 2. (0-3-1). L.

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.

Prerequisites:

- College readiness in reading and math required

Corequisites:

- CHEM 1312 (General Chemistry II)

CHEM 1309. General Chemistry for Engineering Majors (lecture). (3-0-3). L.

Fundamental principles of chemistry for engineering majors; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, acid-base concepts, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, phase-diagrams, introduction to chemical equilibrium, chemical thermodynamics, electrochemistry, and an introduction to descriptive inorganic chemistry and organic chemistry.

Prerequisites:

- High School Chemistry or equivalent preparation
- MATH 1314 (College Algebra)

Corequisites:

- CHEM 1109 (General Chemistry for Engineering Majors (lab))

CHEM 1311. General Chemistry I. (3-0-3). L.

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.

Prerequisites:

- High School Chemistry is strongly recommended
- MATH 1314 (College Algebra) or TSI Math score of 910-949 with a diagnostic score of 5, or by permission of the instructor.

Corequisites:

- CHEM 1111 (General Chemistry Laboratory 1)

CHEM 1312. General Chemistry II. (3-0-3). L.

Chemical equilibrium; phase diagrams and spectrometry; acid base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry.

Prerequisites:

- CHEM 1311 - General Chemistry I, or CHEM 1309 (General Chemistry for Engineering Majors (lecture)) and CHEM 1109 (General Chemistry for Engineering Majors (lab))
- CHEM 1111 (General Chemistry Laboratory 1)

Corequisites:

- CHEM 1112 (General Chemistry Laboratory 2)

CHEM 1406. Introductory Chemistry I (lecture + lab, allied health emphasis). (2-4-4). L.

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for allied health students and for students who are not science majors. 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.

College readiness in reading is required.

CHEM 2123. Organic Chemistry I (lab, 1 SCH version). (0-3-1). L.

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.

Corequisites:

- CHEM 2323 (Organic Chemistry I)

CHEM 2125. Organic Chemistry II (lab, 1 SCH version). (0-3-1). L.

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.

Corequisites:

- CHEM 2325 (Organic Chemistry II)

CHEM 2323. Organic Chemistry I. (3-0-3). L.

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.

Prerequisites:

- Successful completion with a grade of C or better in CHEM 1312/1112 is required.
- CHEM 1112 (General Chemistry Laboratory 2)
- CHEM 1312 (General Chemistry II)

Corequisites:

- CHEM 2123 (Organic Chemistry I (lab, 1 SCH version))

CHEM 2325. Organic Chemistry II. (3-0-3). L.

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.

Prerequisites:

- Successful completion with a grade of C or better in CHEM2123/2323 or CHEM 2423 required
- CHEM 2123 (Organic Chemistry I (lab, 1 SCH version))
- CHEM 2323 (Organic Chemistry I)

Corequisites:

- CHEM 2125 (Organic Chemistry II (lab, 1 SCH version))

CHEM 2389. Academic Cooperative. (3-3-3). L.

An instructional program designed to integrate on-campus study with practical hands-on work experience in the physical sciences. In conjunction with class seminars, the individual students will set specific goals and objectives in the scientific study of inanimate objects, processes of matter and energy, and associated phenomena.

CJLE - Police Science (WECM)

CJLE 1329. Basic Peace Officer V. (1-8-3). LP.

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, II, III, and IV (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Training Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

CJLE 1506. Basic Peace Officer I. (2-9-5). LP.

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer II, III, IV, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Training Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

CJLE 1512. Basic Peace Officer II. (4-9-5). LP.

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, III, IV, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

CJLE 1518. Basic Peace Officer III.. (2-9-5). LP.

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, II, IV, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

CJLE 1524. Basic Peace Officer IV. (2-9-5). LP.

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, II, III, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Training Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

CNBT - Construction Building Technology (WECM)

CNBT 1411. Construction Materials and Methods. (3-3-4). L.

Introduction to construction materials and methods and their applications.

COSC - Computer Science

COSC 1301. Introduction to Computing. (3-1-3). L.

Overview of computer systems-hardware, operating systems, the Internet, and application software including word processing, spreadsheets, presentation graphics, and databases. Current topics such as the effect of computers on society, and the history and use of computers in business, educational, and other interdisciplinary settings are also studied. This course is not intended to count toward a student's major field of study in business or computer science.

COSC 1320. C Programming. (3-1-3). L.

Introduces the fundamental concepts of structured programming in the C language. Topics include data types; control structures; functions, structures, arrays, pointers, pointer arithmetic, unions, and files; the mechanics of running, testing, and debugging programs; introduction to programming; and introduction to the historical and social context of computing.

COSC 1336. Programming Fundamentals I. (3-1-3). L.

Introduces the fundamental concepts of structured programming and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. This course is included in the Field of Study Curriculum for Computer Science.

COSC 1437. Programming Fundamentals II. (3-2-4). L.

This course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software. This course is included in the Field of Study Curriculum for Computer Science.

Restrictions:

- COSC 1336 - Programming Fundamentals I Grade of 'C' or better

COSC 2425. Computer Organization and Machine Language. (3-3-4). L.

The organization of computer systems is introduced using assembly language. Topics include basic concepts of computer architecture and organization, memory hierarchy, data types, computer arithmetic, control structures, interrupt handling, instruction sets, performance metrics, and the mechanics of testing and debugging computer systems. Embedded systems and device interfacing are introduced. This course is included in the Field of Study Curriculum for Computer Science.

Restrictions:

- COSC 1437 – Programming Fundamentals II Or Grade of “C” in COSC 1336 - Programming Fundamentals I

COSC 2436. Programming Fundamentals III. (3-3-4). L.

Further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), searching, sorting, recursion, and algorithmic analysis. Programs will be implemented in an appropriate object oriented language. This course is included in the Field of Study Curriculum for Computer Science.

Restrictions:

- COSC 1437 - Programming Fundamentals II Grade of ‘C’ or better

CPMT - Computer Installation and Repair (WECM)

CPMT 1303. Intro to Computer Technology. (3-1-3). L.

A fundamental computer course that provides explanation of the procedures to utilize hardware and software. Emphasis on terminology, acronyms, and hands-on activities.

CPMT 1311. Intro to Computer Maintenance. (3-1-3). L.

Introduction to the installation, configuration, and maintenance of a microcomputer system.

CPMT 1345. Computer Systems Maintenance. (3-1-3). L.

A study of the components within a computer system. Development of testing and troubleshooting skills.

CPMT 1349. Computer Networking Technology. (3-1-3). L.

Networking fundamentals, terminology, hardware, software, and network architecture. Includes local and wide area networking concepts and networking installations and operations.

CPMT 1391. Special Topics in Computer Installation and Repair Technology/Technician. (3-1-3). L.

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.

CPMT 2345. Computer Systems Troubleshooting. (3-1-3). L.

Principles and practices involved in computer system troubleshooting techniques and repair procedures including advanced diagnostic test programs and the use of specialized test equipment.

Prerequisites:

- CPMT 1345 (Computer Systems Maintenance)

CPMT 2350. Industry Certification Preparation. (3-1-3). L.

Overview of the objectives for industry specific certification exam(s).

Prerequisites:

- CPMT 1311 (Intro to Computer Maintenance)

CPMT 2388. Internship - Computer Installation and Repair Technology/Technician.. (0-0-3). L.

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.

CPMT 2389. Internship. (0-0-3). L.

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.

Prerequisites:

- CPMT 2388 (Internship - Computer Installation and Repair Technology/Technician.)

CPMT 2688. Internship - Computer Installation and Repair Technology/Technician. (0-0-6). L.

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.

CRIJ - Criminal Justice

CRIJ 1301. Introduction to Criminal Justice. (3-0-3). L.

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.

CRIJ 1306. Court Systems and Practices. (3-0-3). L.

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.

CRIJ 1307. Crime in America. (3-0-3). L.

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.

CRIJ 1310. Fundamentals of Criminal Law. (3-0-3). L.

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.

CRIJ 1313. Juvenile Justice System. (3-0-3). L.

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.

CRIJ 2301. Community Resources in Corrections. (3-0-3). L.

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.

CRIJ 2313. Correctional Systems and Practices. (3-0-3). L.

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.

CRIJ 2314. Criminal Investigation. (3-0-3). L.

Investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences, case and trial preparation.

CRIJ 2323. Legal Aspects of Law Enforcement. (3-0-3). L.

Police authority, responsibilities, constitutional restraints, laws of arrest, search and seizure, and police liability.

CRIJ 2328. Police Systems and Practices. (3-0-3). L.

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.

CSME - Cosmetology (WECM)

CSME 1348. Principles of Skin Care. (2-4-3). L.

An introduction of the theory and practice of skin care.

CSME 1401. Orientation to Cosmetology. (2-5-4). L.

An overview of the skills and knowledge necessary for the field of cosmetology. Corequisite: CSME 1405, Fundamentals of Cosmetology

CSME 1405. Fundamentals of Cosmetology. (2-5-4). L.

A course in the basic fundamentals of cosmetology. Topics include safety and sanitation, service preparation, manicure, facial, chemical services, shampoo, haircut, wet styling, and comb out.

Prerequisites:

- CSME 1401 (Orientation to Cosmetology)

CSME 1410. Introduction to Haircutting and Related Theory. (2-8-4). L.

Introduction to the theory and practice of hair cutting. Topics include terminology, implements, sectioning and finishing techniques.

CSME 1420. Orientation to Facial Specialist. (2-8-4). L.

An overview of the skills and knowledge necessary for the field of facials and skin care.

CSME 1430. Orientation to Nail Technology. (2-8-4). L.

An overview of the fundamental skills and knowledge necessary for the field of nail technology.

CSME 1431. Principles of Nail Technology I. (2-8-4). L.

A course in the principles of nail technology. Topics include anatomy, physiology, theory, and skills related to nail technology.

Prerequisites:

- CSME 1430 (Orientation to Nail Technology)

CSME 1441. Principles of Nail Technology II. (2-8-4). L.

A continuation of the concepts and principles of nail technology. Topics include professional ethics, salon management, client relations, and related skills of nail technology.

Prerequisites:

- CSME 1430 (Orientation to Nail Technology)

CSME 1453. Chemical Reformation and Related Theory. (2-5-4). L.

Presentation of the theory and practice of chemical reformation including terminology, application, and workplace competencies.

Prerequisites:

- CSME 1401 (Orientation to Cosmetology)

CSME 1521. Principles of Facial and Skin Care Technology I. (3-8-5). L.

An introduction to the principles of facial and skin care technology. Topics include anatomy, physiology, theory, and related skills of facial and skin care technology

Prerequisites:

- CSME 1348 (Principles of Skin Care)

CSME 1545. Principles of Facial and Skin Care Technology II. (3-8-5). L.

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 and skin care.

Prerequisites:

- CSME 1348 (Principles of Skin Care)

CSME 1547. Principles of Skin Care/Facials & Related Theory. (3-8-5). L.

In-depth coverage of the theory and practice of skin care, facials, and cosmetics

Prerequisites:

- CSME 1348 (Principles of Skin Care)

CSME 2430. Nail Enhancement. (2-8-4). L.

A course in the theory, application, and related technology of nail enhancements.

Prerequisites:

- CSME 1430 (Orientation to Nail Technology)

CSME 2431. Principles of Facials and Skin Care Technology III. (2-8-4). L.

Demonstrate professional ethics, salon management, and develop client relations and related skills in preparation for the Texas Cosmetology Commission examination.

Prerequisites:

- CSME 1348 (Principles of Skin Care)

CSME 2439. Advanced Hair Design. (2-5-4). L.

Advanced concepts in the theory and practice of hair design.

Prerequisites:

- CSME 1401 (Orientation to Cosmetology)

CSME 2441. Preparation for Texas Cosmetology Commission Examination. (2-5-4). L.

Preparation for the Texas Cosmetology Commission Operator Examination

Prerequisites:

- CSME 1401 (Orientation to Cosmetology)

CSME 2501. The Principles of Hair Coloring and Related Theory. (3-7-5). L.

Presentation of the theory, practice, and chemistry of hair color. Topics include terminology, application, and workplace competencies related to hair color.

Prerequisites:

- CSME 1401 (Orientation to Cosmetology)

CTMT - Computed Tomography

CMT 1291. Special Topics in Computed Tomography. (2-0-2). L.

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.

CTMT 2336. Computed Tomography Equipment and Methodology. (3-0-3). L.

Skill development in the operation of computed tomographic equipment, focusing on routine protocols, image quality, quality assurance, and radiation protection.

CTMT 2460. Clinical I. (0-12-4). L.

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts.

CTMT 2461. Clinical II. (0-12-4). L.

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts.

CVOP - Commercial Vehicle Operator

CVOP 1005. Commercial Drivers License Written Skills. (50). L.

Overview of the State of Texas Class A Commercial Drivers License written test. In-depth coverage of general knowledge, air brakes, combination vehicle, doubles and triples, tankers, and hazardous materials. Includes preparation for mastery of the Commercial Drivers License written examination.

CVOP 1013. Professional Truck Driver 1. (3-3-3). L.

Overview of the State of Texas Class A Commercial Drivers License written test. Includes preparation for mastery of the Commercial Drivers License written examination, general truck driving skills with hands-on component, and instruction coordinated with the Department of Transportation.

DFTG - Design Technology (WECM)

DFTG 1309. Basic Computer-Aided Drafting. (2-4-3). L.

An introduction to computer-aided drafting. Emphasis is placed on setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinate systems, and plot/print to scale.

DFTG 1405. Introduction to Technical Drawing. (3-3-4). L.

An introduction to reading, interpreting, and developing technical drawings, including the principles of drafting and computer-aided design.

DFTG 1413. Drafting for Specific Occupations. (3-3-4). L.

Discussion of theory and practice with drafting methods and the terminology required to prepare working drawings in specific or various occupational fields

DFTG 1425. Technical Drawing Reading and Sketching. (4-1-4). L.

An introduction to reading and interpreting working drawings for fabrication processes and associated trades. Use of sketching techniques to create pictorial and multiple-view drawings.

DFTG 1430. Civil Drafting. (3-3-4). L.

Preparation of civil drawings including drafting methods and principles used in civil engineering.

Prerequisites:

- DFTG 1309 (Basic Computer-Aided Drafting)
- DFTG 1405 (Introduction to Technical Drawing)

DFTG 1433. Mechanical Drafting. (3-3-4). L.

Study of mechanical drawings using dimensioning and tolerances, sectioning techniques, orthographic projection, and pictorial drawings.

Prerequisites:

- DFTG 1309 (Basic Computer-Aided Drafting)
- DFTG 1405 (Introduction to Technical Drawing)

DFTG 1445. Parametric Modeling and Design. (3-3-4). L.

Parametric-based design software for 3D design and drafting.

Prerequisites:

- DFTG 2419 (Intermediate Computer-Aided Drafting)

Restrictions:

- DFTG 2419 or consent of instructor

DFTG 2331. Advanced Technologies in Architectural Design and Drafting. (2-4-3). L.

Use of architectural specific software to execute the elements required in designing standard architectural; exhibits utilizing custom features to create walls, windows and specific design requirements for construction in residential/ commercial and industrial architecture.

Restrictions:

- DFTG 1309 or consent of instructor

DFTG 2402. Machine Drafting. (3-3-4). L.

Production of detail and assembly drawings of machines, threads, gears, utilizing tolerances, limit dimensioning and surface finishes.

Prerequisites:

- DFTG 1433 (Mechanical Drafting)
- DFTG 2419 (Intermediate Computer-Aided Drafting)

DFTG 2412. Technical Illustrations and Presentations. (3-3-4). L.

Study of pictorial drawings including isometrics, obliques, perspectives, charts, and graphs. Emphasis on rendering and using different media.

DFTG 2419. Intermediate Computer-Aided Drafting. (3-3-4). L.

A continuation of practices and 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.

Prerequisites:

- DFTG 1309 (Basic Computer-Aided Drafting)

DFTG 2427. Landscape Drafting. (3-3-4). L.

A study of site planning and landscape design.

DFTG 2428. Architectural Drafting–Commercial. (3-3-4). L.

Preparation of architectural drawings for commercial structures with emphasis on construction methods, including architectural drafting procedures, practices, governing codes, accessibility requirements, terms and symbols.

DFTG 2438. Final Project – Advanced Drafting. (3-2-4). L.

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

Prerequisites:

- DFTG 2402 (Machine Drafting)

DFTG 2440. Solid Modeling/Design. (3-3-4). L.

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.

Prerequisites:

- DFTG 2402 (Machine Drafting)

DFTG 2486. Internship – Drafting and Design Technology/Technician, General.. (0-20-4). L.

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.

Restrictions:

- This is a 20 hour per week internship program
- Consent of Professor

DHYG - Dental Hygiene

DHYG 1207. General and Dental Nutrition. (2-0-2). L.

General nutrition and nutritional biochemistry emphasizing the effect nutrition has on oral health.

DHYG 1219. Dental Materials. (1-4-2). L.

Physical and chemical properties of dental materials including the application and manipulation of the various materials used in dentistry.

DHYG 1227. Preventive Dental Hygiene Care. (1-3-2). L.

The role of the dental hygienist as a therapeutic oral health care provider with emphasis on concepts of disease management, health promotion, communication, and behavior modification.

DHYG 1235. Pharmacology for the Dental Hygienist. (2-0-2). L.

Classification of drugs and their uses, actions, interactions, side effects, contraindications, with emphasis on dental applications.

DHYG 1260. Clinical- Dental Hygienist. (0-12-2). L.

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.

DHYG 1301. Orofacial Anatomy, Histology, & Embryology. (2-4-3). L.

The histology and embryology of oral tissues, gross anatomy of the head and neck, tooth morphology, and individual tooth identification.

DHYG 1304. Dental Radiology. (1-6-3). L.

Fundamentals of oral radiography, including techniques, interpretation, quality assurance, and ethics.

DHYG 1311. Periodontology. (3-0-3). L.

Normal and diseased periodontium including the structural, functional, and environmental factors. Emphasis on etiology, pathology, treatment modalities, and therapeutic and preventive periodontics.

DHYG 1315. Community Dentistry. (2-4-3). L.

The principles and concepts of community public health and dental health education emphasizing community assessment, educational planning, implementation, and evaluation including methods and materials used in teaching dental health education in various community settings.

DHYG 1339. General and Oral Pathology. (3-1-3). L.

Disturbances in human body development, diseases of the body, and disease prevention measures with emphasis on the oral cavity and associated structures.

DHYG 1431. Preclinical Dental Hygiene. (2-8-4). L.

Foundational knowledge for performing clinical skills and management of medical emergencies for patients with emphasison procedures and rationale for performing dental hygiene care. Introduction to ethical principles as they apply to dental hygiene care.

DHYG 2153. Dental Hygiene Practice. (0-2-1). L.

Emphasis on the laws governing the practice of dentistry and dental hygiene, moral standards, and the ethical standards established by the dental hygiene profession. Practice settings for the dental hygienist, office operations, and preparation for employment, and introduction to the dental team.

DHYG 2201. Contemporary Dental Hygiene Care I. (2-1-2). L.

Dental hygiene care for the medically or dentally compromised patient including supportive treatment options.

DHYG 2231. Contemporary Dental Hygiene Care II. (1-3-2). L.

A continuation of Dental Hygiene Care I. Dental hygiene care for the medically or dentally compromised patient including supportive treatment.

DHYG 2360. Clinical Dental/Hygienist. (0-18-3). L.

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.

DHYG 2362. Clinical Dental Hygienist. (0-18-3). L.

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.

DHYG 3300. Cultural Competence in Oral Health Care. (3-3-3). L.

This course focuses on learning to adapt and change in emerging practice areas for dental hygienists that provide care to population groups challenged by access to oral health care, particularly those of diverse cultural backgrounds. The course emphasizes strategies for the delivery of culturally competent care to pediatric, geriatric, medically compromised and special needs patients. Ethical issues are emphasized regarding care for vulnerable client population groups.

DHYG 3310. Advanced Dental Health Care Ethics. (3-0-3). L.

This course focuses on issues faced by health care professionals, including ethical and legal issues related to the practice of dental hygiene. Utilizes ethical theories of justice to address difficult questions that face the treatment of dental patients. Students will apply material to real-life situations using case-study format.

DHYG 3320. Dental Hygiene Educational Concepts. (3-0-3). L.

This course provides the dental hygienist with the background to become an effective classroom and clinical instructor. Students will discuss the current philosophy of dental hygiene education and the American Dental Association’s accreditation requirements regarding course syllabi, instructional objectives, learning experiences, evaluation procedures and remediation policies. Students will explore the various learning styles and classroom techniques that can be utilized to incorporate all learning styles, motivate the learner and enhance the learning process.

DHYG 3330. Evidence-Based Dental Hygiene. (3-0-3). L.

Involves the learning and implementing of evidence-based decision-making principles. The dental hygiene practitioner will value the integration of clinical expertise and available external evidence from research. Emphasis on strategy, methodology, research design with clinical focus on dental hygiene standards of care and process of care and dental hygiene diagnosis, as related to a collaborative dental hygiene practice.

DHYG 4220. Dental Hygiene Case Development. (2-0-2). L.

Explores a critical approach to the components involved in developing advanced care plans. Involves the application of the process of care to address issues such as patient education, prescribed care, and insurance-based care as they related to advanced care plans. Learning activities will include the development of an advanced dental hygiene care plan utilizing evidence-based research.

DHYG 4300. Contemporary Issues in Dental Hygiene. (3-0-3). L.

This course explores the transformation of dental hygiene from a vocation to a profession and follows the track into the future. Leadership development is emphasized for professional growth and the potential impact on advancing the profession.

DHYG 4350. Interprofessional Collaboration. (3-0-3). L.

This course examines the benefits of interprofessional collaboration between oral health care practitioners and other health care providers. Students will have the opportunity to work in groups to identify and address a variety of simulated health problems which link oral health risks to systemic health risks. This course will include observation in a health care setting outside of a dental office.

DHYG 4360. Current Issues in Periodontics. (3-0-3). L.

This course will explore current studies in periodontology and related disciplines to identify factors which modify theory or practice. Focus will be placed on the relationship of periodontal health to systemic health, current concepts in etiology, risk factors, assessment, and treatment.

DHYG 4380. Administrative Leadership. (3-0-3). L.

This course is a study and application of contemporary theory, concepts and practices of effective organizational leadership appropriate to the dental hygiene professional. Emphasis will be on the development of leadership skills related to personal attributes, communication strategies and self-examination.

DHYG 4430. Dental Hygiene Practicum. (2-5-4). L.

This course provides a survey of alternate practice settings for the dental hygienist and allows the student to participate in active learning in an alternate setting of choice. It includes 80 hours of internship in a dental hygiene educational setting, an oral health community health setting, a dental office management setting, or any approved alternate dental hygiene setting of choice. It requires written evaluation of learning as assigned by the professor.

DNTA - Dental Assisting (WECM)

DNTA 1202. Communication and Behavior in the Dental Office. (2-0-2). L.

The study of human interaction and communication in the dental office.

A grade of "C" or better is required for progression.

Corequisites:

- DNTA 1245, DNTA 1301, DNTA 1305, DNTA 1311, DNTA 1315

Restrictions:

- Must be taken in sequence as listed in the degree plan.

DNTA 1245. Preventive Dentistry. (1-2-2). L.

The study of nutrition and preventable dental disease and community dental health.

A grade of "C" or better is required for progression.

Corequisites:

- DNTA 1202, DNTA 1301, DNTA 1305, DNTA 1311, DNTA 1315

Restrictions:

- Must be taken in sequence as listed in the degree plan.

DNTA 1251. Dental Office Management. (1-2-2). L.

Perform dental office administrative duties; demonstrate accounting and financial operations; comply with federal and state guidelines regarding health care providers; and operate dental technology and software systems.

A grade of "C" or better is required for progression

Prerequisites:

- DNTA 1202, DNTA 1245, DNTA 1301, DNTA 1305, DNTA 1311, DNTA 1315

Corequisites:

- DNTA 1347, DNTA 1349, DNTA 1353, DNTA 1460, DNTA 2230

Restrictions:

- Must be taken in sequence as listed in the degree plan.

DNTA 1301. Dental Materials. (2-4-3). L.

Composition, properties, procedures and safety standards related to dental materials. A grade of C or better is required for progression.

Corequisites:

- DNTA 1202, DNTA 1245, DNTA 1305, DNTA 1311, DNTA 1315

Restrictions:

- Must be taken in sequence as listed in degree plan

DNTA 1305. Dental Radiology I. (2-4-3). L.

Introduction to radiation physics, radiation protection, and the operation of radiographic equipment. Instruction in exposure, processing and mounting of dental radiographs, and study of federal and state safety and standard practices.

A grade of "C" or better is required for progression.

Corequisites:

- DNTA 1202, DNTA 1245, DNTA 1301, DNTA 1311, DNTA 1315

Restrictions:

- Must be taken in sequence as listed in the degree plan.

DNTA 1311. Dental Science. (3-0-3). L.

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.

A grade of "C" or better is required for progression.

Corequisites:

- DNTA 1202, DNTA 1245, DNTA 1301, DNTA 1305, DNTA 1315

Restrictions:

- Must be taken in sequence as listed in the degree plan.

DNTA 1315. Chairside Assisting. (2-4-3). L.

A study of pre-clinical chairside assisting procedures, instrumentation, OSHA and other regulatory agencies' standards.

A grade of "C" or better is required for progression.

Corequisites:

- DNTA 1202, DNTA 1245, DNTA 1301, DNTA 1305, DNTA 1311

Restrictions:

- Must be taken in sequence as listed in the degree plan.

DNTA 1347. Advanced Dental Science. (3-0-3). L.

An advanced study of anatomical systems, pharmacology, oral pathology, and developmental abnormalities.

A grade of "C" or better is required to progress.

Prerequisites:

- DNTA 1202, DNTA 1245, DNTA 1301, DNTA 1305, DNTA 1311, DNTA 1315

Corequisites:

- DNTA 1251, DNTA 1349, DNTA 1353, DNTA 1460, DNTA 2230

Restrictions:

- Must be taken in sequence as listed in the degree plan.

DNTA 1349. Dental Radiology in the Clinic. (1-4-3). L.

The practical application of exposing, processing and mounting diagnostically acceptable radiographs obtained by utilizing various radiographic techniques.

A grade of "C" or better is required for progression

Prerequisites:

- DNTA 1202, DNTA 1245, DNTA 1301, DNTA 1305, DNTA 1311, DNTA 1315

Corequisites:

- DNTA 1251, DNTA 1347, DNTA 1353, DNTA 1460, DNTA 2230

Restrictions:

- Must be taken in sequence as listed in the degree plan.

DNTA 1353. Dental Assisting Applications. (2-3-3). L.

An expanded study of dental assisting techniques with emphasis on four-handed dentistry and utilization of armamentarium for general practice and specialty procedures.

A grade of "C" or better is required to progress.

Prerequisites:

- DNTA 1202, DNTA 1245, DNTA 1301, DNTA 1305, DNTA 1311, DNTA 1315

Corequisites:

- DNTA 1251, DNTA 1347, DNTA 1349, DNTA 1460, DNTA 2230

Restrictions:

- Must be taken in sequence as listed in the degree plan.

DNTA 1460. Clinical-Dental Assisting / Assistant. (0-16-4). L.

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.

A grade of "C" or better is required for progression

Prerequisites:

- DNTA 1202, DNTA 1245, DNTA 1301, DNTA 1305, DNTA 1311, DNTA 1315

Corequisites:

- DNTA 1251, DNTA 1347, DNTA 1349, DNTA 1353, DNTA 2230

Restrictions:

- Must be taken in sequence as listed in the degree plan.

DNTA 2230. Seminar for the Dental Assistant I. (2-0-2). L.

Analysis of case studies during the clinical phase of practicum/clinical.

A grade of "C" or better is required to progress.

Prerequisites:

- DNTA 1202, DNTA 1245, DNTA 1301, DNTA 1305, DNTA 1311, DNTA 1315

Corequisites:

- DNTA 1251, DNTA 1347, DNTA 1349, DNTA 1353, DNTA 1460

Restrictions:

- Must be taken in sequence as listed in the degree plan.

DNTA 2260. Clinical-Dental Assisting / Assistant. (0-32-2). L.

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.

A grade of "C" or better is required to progress.

Prerequisites:

- DNTA 1202, DNTA 1245, DNTA 1251, DNTA 1301, DNTA 1305, DNTA 1311, DNTA 1315, DNTA 1347, DNTA 1349, DNTA 1353, DNTA 1460, DNTA 2230

Restrictions:

- Must be taken in sequence as listed in the degree plan.

DRAM - Drama

DRAM 1120. Theatre Practicum . (0-4-1). L.

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions

Corequisites:

- DRAM 1330 (Stagecraft I)

Restrictions:

- May be repeated one time for credit.

DRAM 1121. Theatre Practicum II. (0-4-1). L.

Practicum in theater is open to all students with emphasis on technique and procedures with experience gained in play productions. Lab to be taken concurrently with DRAM 1351. May be repeated one time for credit.

Corequisites:

- DRAM 1351 (Acting I)

Restrictions:

- May be repeated one time for credit.

DRAM 1310. Theater Appreciation. (3-0-3). L.

Survey of theater including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. Participation in productions may be required. Designed as a humanities requirement for theatre and non-theatre majors. RW

DRAM 1322. Stage Movement. (3-0-3). L.

Principles, practices, and exercises in awareness, relaxation, freedom, flexibility, and expressiveness in the actor's physical instrument.

DRAM 1330. Stagecraft I. (3-3-3). L.

Study and application of the methods and components of theatrical production that may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound, and theatrical management.

Corequisites:

- DRAM 1120 (Theatre Practicum)

DRAM 1341. Stage Makeup. (3-3-3). L.

Design and execution of makeup for the purpose of developing believable characters. Includes discussion of basic makeup principles and practical experience of makeup application.

DRAM 1342. Costume Technology. (3-3-3). L.

Introduction to the process and application of the fundamental skills of costume production, modification, and maintenance.

Learning Outcomes-- Upon successful completion of this course, students will:

1. Demonstrate proficiency in hand and machine sewing techniques.
2. Recognize and apply the age use of costume studio materials, tools and equipment.
3. Differentiate characteristics and uses of fabric, including fiber content and weave.
4. Interpret and execute basic patterns to create a clothing/accessory piece.

DRAM 1351. Acting I. (3-3-3). L.

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)

DRAM 1352. Acting II. (3-3-3). L.

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)

DRAM 2120. Theatre Practicum III. (0-4-1). L.

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions.

Restrictions:

- Open to students who have already taken two semesters of DRAM 1120. Laboratory course for extensive participation in theatre activities including use of scenery, lighting, properties, and other facets of technical theatre. May be repeated one time for credit.

DRAM 2121. Theatre Practicum IV. (0-4-1). L.

Practicum in theater is open to all students with an emphasis on technique and procedures with experience gained in play productions. May be repeated one time for credit. Lab to be taken concurrently DRAM 1352

Corequisites:

- DRAM 1352 (Acting II)

Restrictions:

- May be repeated one time for credit.

DRAM 2331. Stagecraft II. (3-3-3). L.

Continued study and application of the methods and components of theatrical production that may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound and theatrical management.

Corequisites:

- DRAM 1120 (Theatre Practicum)

DRAM 2335. Theater Design. (3-1-3). L.

Survey of principles and practices of theater design and its elements. The fundamentals of art and their application to major areas of theatrical design.

Learning Outcomes--Upon successful completion of this course, students will:

1. Identify the elements and principles of design.
2. Analyze dramatic literature in preparation to design for the theater.
3. Produce research in preparation to design for the theater.
4. Differentiate established methods for developing a design concept.
5. Visualize and communicate designs as part of a collaborative process.

DRAM 2336. Voice for the Actor. (3-0-3). L.

Principles, practices, and exercises in awareness, relaxation, freedom, flexibility, and expressiveness in the actor's vocal instrument

DRAM 2355. Script Analysis. (3-0-3). L.

Examination of foundational skills for understanding the structure and content of play scripts for interpretation and conceptualization in theater productions by directors, designers, actors, and technicians. Introduces students to significant plays in the history of dramatic literature in the playwright’s social and cultural context

DRAM 2389. Academic Cooperative. (3-3-3). L.

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 drama.

ECON - Economics

ECON 2301. Principles of Macroeconomics. (3-0-3). L.

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. (R,W)

ECON 2302. Principles of Microeconomics. (3-0-3). L.

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. (R,W)

ECRD - Electrocardiography

ECRD 1011. Electrocardiography. (64). L.

Fundamentals of cardiovascular anatomy and physiology. Includes basic electrocardiography procedures, interpretation of basic dysrhythmias, and appropriate treatment modalities.

EDUC - Education

EDUC 1300. Learning Frameworks. (3-0-3). L.

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. Cross-listed as PSYC 1300. Only one of the cross-listed courses can be taken for credit.

EDUC 1301. Introduction to the Teaching Profession. (3-1-3). L.

An enriched, integrated pre-service course and content experience that provides active recruitment and institutional support of students interested in a teaching career, especially in high need fields. The course provides students with opportunities to participate in early field observations at all levels of P-12 schools with varied and diverse student populations and 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. Course content should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards; and the course must include a minimum of 16 contact hours of field experience in P-12 classrooms. Up to 16 clock hours of P-12 field experiences may be provided by electronic or other video or technology-based method.

Restrictions:

- Students must have met TSI Reading & Writing requirements prior to enrolling

EDUC 2301. Introduction to Special Populations. (3-1-3). L.

An enriched, integrated pre-service course and content experience that 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. The course provides students with opportunities to participate in early field observations of P-12 special populations and should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Must include a minimum of 16 contact hours of field experience in P-12 classrooms with special populations. Up to 16 clock hours of P-12 field experiences may be provided by electronic or other video or technology-based method.

Prerequisites:

- EDUC 1301 (Introduction to the Teaching Profession)

EECT - Electrical, Electronic and Communications Technology (WECM)

EECT 1004. Electronic Soldering. (32). L.

Theory and use of tools and equipment for electronic soldering techniques.

EECT 1104. Electronic Soldering. (1-1-1). L.

Theory and use of tools and equipment for electronic soldering techniques.

EECT 1407. Convergent Technologies. (3-2-4). L.

A study of telecommunications convergence technologies including telephone, LAN, WAN, wireless, voice, video, and internet protocol.

ELMT - Electromechanical Engineering Technology (WECM)

ELMT 1311. Solar Fundamentals. (2-3-3). L.

Study of heat transference, motors, pumps and other mechanical devices; solid state switches; photovoltaic plates and energy conversion; thermal dynamics; and solar energy.

ELMT 1402. Solar Photovoltaic Systems. (3-3-4). L.

Design and installation of solar photovoltaic systems and their applications.

ELPT - Electrical and Power Transmission Installation (WECM)

ELPT 1011. Basic Electrical Theory. (80). L.

Basic theory and practice of electrical circuits. Includes calculations as applied to alternating and direct current.

ELPT 1041. Motor Controls. (80). L.

Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wiring, and schematic diagram interpretations.

ELPT 1221. Introduction to Electrical Safety and Tools. (2-1-2). L.

This course covers safety rules and regulations. Includes the selection, inspection, use and maintenance of common tools for electricians.

ELPT 1291. Special Topics in Electrical and Power Transmission. (2-1-2). L.

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.

ELPT 1325. National Electric Code I. (3-0-3). L.

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.

ELPT 1329. Residential Wiring. (2-4-3). L.

Wiring methods for single family and multi-family dwellings. Includes load calculations, service entrance sizing, proper grounding techniques, and associated safety procedures.

ELPT 1345. Commercial Wiring. (2-4-3). L.

Commercial wiring methods. Includes overcurrent protection, raceway panel board installation, proper grounding techniques, and associated safety procedures. Interpret electrical blueprints/drawings; compute the circuit sizes and overcurrent protection needed for the installation of branch circuits, feeders, and service entrance conductors; explain the proper installation of wiring devices according to the National Electrical Code (NEC)and local electrical codes; demonstrate grounding methods; identify commercial wiring methods including conduit bending; and demonstrate proper safety procedures.

ELPT 1364. Practicum in Electrical and Power Transmission. (1-8-3). L.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

ELPT 1380. Cooperative in Electrical and Power Transmission. (1-8-3). L.

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. Includes a lecture component.

ELPT 1411. Basic Electrical Theory. (3-2-4). L.

Basic theory and practice of electrical circuits. Includes calculations as applied to alternating and direct current.

ELPT 1441. Motor Control. (3-2-4). L.

Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wiring, and schematic diagram interpretations.

ELPT 2019. Programmable Logic Controllers 1. (64). L.

Fundamental concepts of programmable logic controllers, principles of operation, and numbering systems as applied to electrical controls.

ELPT 2055. Programmable Logic Controllers 2. (64). L.

Advanced concepts in programmable logic controllers and their applications and interfacing to industrial controls.

ELPT 2164. Practicum Electrical & Power Transmission. (0-8-1). L.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student

ELPT 2305. Motors and Transformers.. (2-2-3). L.

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

ELPT 2319. Programmable Logic Controllers I. (2-2-3). L.

Fundamental concepts of programmable logic controllers, principles of operation and numbering systems as applied to electrical controls.

ELPT 2337. Electrical Planning and Estimating. (3-1-3). L.

Planning and estimating for residential, commercial, and industrial wiring systems. Includes a variety of electrical techniques. List estimating procedures; formulate material and labor costs; identify types of bids; calculate cost adjustments and job costs; and demonstrate the use of estimating forms.

ELPT 2343. Electrical Systems Design. (3-0-3). L.

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).

ELTN - Electrician (WECM)

ELTN 1291. Special Topics in Electrical and Power Transmission. (2-1-2). L.

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.

ELTN 1343. Electrical Troubleshooting. (2-3-3). L.

Maintenance, operation, troubleshooting, and repair of circuits of various residential, commercial, and industrial electrical systems.

EMSP - Emergency Medical Technology (WECM)

EMSP 1160. Clinical-Emergency Medical Technology/Technician. (0-3-1). P.

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, 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.

Restrictions:

- Acceptance to the Emergency Medical Technician (EMT) Program.
- Pre-entrance physical exam and health statement, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Healthcare Providers from American Heart Association or Red Cross.

EMSP 1161. Clinical-Emergency Medical Technology/Technician. (0-6-1). P.

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.

Restrictions:

- Acceptance into the Paramedic program.
- Pre-entrance physical exam and health statement, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Healthcare Providers from American Heart Association or Red Cross.

EMSP 1356. Patient Assessment and Airway Management. (3-1-3). L.

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.

Restrictions:

- Acceptance into the Paramedic program.

EMSP 1438. Introduction to Advanced Practice. (4-1-4). L.

Fundamental elements associated with emergency medical services 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

Restrictions:

- Acceptance into the Paramedic program.

EMSP 1455. Trauma Management. (4-1-4). L.

Knowledge and skills in the assessment and management of patients with traumatic injuries. Student will integrate the pathophysiological assessment findings; formulate a field impression; and implement the treatment plan for the trauma patient.

Restrictions:

- Acceptance into the Paramedic program

EMSP 1501. Emergency Medical Technician. (4-4-5). L.

This course is preparation for Certification as an Emergency Medical Technician (EMT) - Basic. The student will develop proficiency in cognitive, psychomotor and affective domains for the EMT in accordance with the current Emergency Medical Services guidelines.

Corequisites:

- EMSP 1160 (Clinical-Emergency Medical Technology/Technician)
- EMSP 2305 (EMS Operations)

Restrictions:

- Acceptance into the Emergency Medical Technician (EMT) Program

EMSP 2137. Emergency Procedures. (3-0-1). L.

Application of emergency procedures. The student will integrate theory and skills mastered in other EMSP courses; and demonstrate comprehensive problem-solving techniques through skill simulation.

Restrictions:

- Acceptance into the Paramedic program.

EMSP 2143. Assessment Based Management. (0-3-1). L.

A summative experience covering comprehensive, assessment-based patient care management for the paramedic level.

Restrictions:

- Acceptance into the Paramedic program.

EMSP 2162. Clinical-Emergency Medical Technology/Technician. (0-6-1). P.

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.

Restrictions:

- Acceptance into the Paramedic program.

EMSP 2206. Emergency Pharmacology. (2-1-2). L.

A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages. The student will utilize knowledge of pharmacological concepts to demonstrate safe administration of medications in emergency settings.

Restrictions:

- Acceptance into the Paramedic program.

EMSP 2237. Emergency Procedures. (1-2-2). L.

Application of emergency procedures. The student will integrate theory and skills mastered in other EMSP courses; and demonstrate comprehensive problem-solving techniques through skill simulation.

Restrictions:

- Acceptance into the Paramedic program.

EMSP 2305. EMS Operations. (3-0-3). L.

Knowledge and skills to safely manage incidents and rescue situations; utilize air medical resources; identify hazardous materials and other specialized incidents. Student will identify principles of EMS Operations; and describe management of routine and specialized incidents.

Corequisites:

- EMSP 1160 (Clinical-Emergency Medical Technology/Technician)
- EMSP 1501 (Emergency Medical Technician)

EMSP 2330. Special Populations. (3-1-3). L.

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.

Restrictions:

- Acceptance into the Paramedic program.

EMSP 2434. Medical Emergencies. (4-1-4). L.

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.

Restrictions:

- Acceptance into the Paramedic program.

EMSP 2544. Cardiology. (4-3-5). L.

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.

Restrictions:

- Acceptance into the Paramedic program.

EMSP 2563. Clinical-Emergency Medical Technology/Technician. (0-18-5). P.

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.

Restrictions:

- Acceptance into the Paramedic program.

ENGL - English

ENGL 1301. Composition I. (3-1-3). L.

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. (R,W)

Restrictions:

- The course requires a lab component
- College readiness in reading and writing required.

ENGL 1302. Composition II. (3-1-3). L.

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.

Prerequisites:

- ENGL 1301 (Composition I)

Restrictions:

- The course requires a lab component

ENGL 2311. Technical and Business Writing. (3-0-3). L.

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.

Prerequisites:

- ENGL 1301 (Composition I)

ENGL 2322. British Literature I. (3-0-3). L.

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.

Prerequisites:

- ENGL 1301 (Composition I)

ENGL 2323. British Literature II. (3-0-3). L.

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.

Prerequisites:

- ENGL 1301 (Composition I)

ENGL 2327. American Literature I. (3-0-3). L.

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.

Prerequisites:

- ENGL 1301 (Composition I)

ENGL 2328. American Literature II. (3-0-3). L.

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.

Prerequisites:

- ENGL 1301 (Composition I)

ENGL 2332. World Literature I. (3-0-3). L.

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.

Prerequisites:

- ENGL 1301 (Composition I)

ENGL 2333. World Literature II. (3-0-3). L.

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.

Prerequisites:

- ENGL 1301 (Composition I)

ENGL 2341. Forms of Literature. (3-0-3). L.

The study of one or more literary genres including, but not limited to, poetry, fiction, drama and film.

Prerequisites:

- ENGL 1301 (Composition I)

ENGL 2351. Mexican-American Literature. (3-0-3). L.

A survey of Mexican American/Chicanx literature from Mesoamerica to the present. Students will study literary works of fiction, poetry, drama, essays, and memoirs in relation to their historical, linguistic, political, regional, gendered, and cultural contexts. Texts will be selected from a diverse group of authors, literary movements, and media forms. Topics and themes may include the literary performance of identity and culture, aesthetic mediation of racialization, struggle and protest, and artistic activism.

Prerequisites:

- ENGL 1301 (Composition I)

ENGR - Engineering

ENGR 1201. Introduction to Engineering. (1-3-2). L.

An introduction to the engineering profession with emphasis on technical communication and team-based engineering design.

Prerequisites:

- MATH 1314 (College Algebra)

Restrictions:

- Prerequisite MATH 1314 or equivalent preparation

ENGR 1304. Engineering Graphics I. (2-4-3). L.

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.

Prerequisites:

- MATH 1314 (College Algebra)

Restrictions:

- Prerequisite: MATH 1314 - College Algebra or equivalent academic preparation.

ENGR 2105. Electrical Circuits 1 Lab. (0-3-1). L.

Laboratory experiments supporting theoretical principles presented in ENGR 2305 involving DC and AC circuit theory, network theorems, time, and frequency domain circuit analysis. Introduction to principles and operation of basic laboratory equipment; laboratory report preparation. Co-requisite: ENGR 2305

Corequisites:

- ENGR 2305 (Electrical Circuits I)

ENGR 2301. Engineering Mechanics – Statics. (3-0-3). L.

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.

Prerequisites:

- PHYS 2125 (University Physics Laboratory I)
- PHYS 2325 (University Physics I)

Corequisites:

- MATH 2414 (Calculus II)

ENGR 2302. Engineering Mechanics - Dynamics. (3-0-3). L.

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.

Prerequisites:

- ENGR 2301 (Engineering Mechanics – Statics)

ENGR 2305. Electrical Circuits I. (3-0-3). L.

Principles of electrical circuits and systems. Basic circuit elements (resistance, inductance, mutual inductance, capacitance, independent and dependent controlled voltage, and current sources). Topology of electrical networks; Kirchhoff's laws; node and mesh analysis; DC circuit analysis; operational amplifiers; transient and sinusoidal steady-state analysis; AC circuit analysis; first- and second-order circuits; Bode plots; and use of computer simulation software to solve circuit problems.

Prerequisites:

- MATH 2414 (Calculus II)
- PHYS 2126 (University Physics Laboratory II)
- PHYS 2326 (University Physics II)

Corequisites:

- MATH 2320 (Differential Equations)

ENGR 2332. Mechanics of Materials. (3-1-3). L.

Stresses, deformations, stress-strain relationships, torsions, beams, shafts, columns, elastic deflections in beams, combined loading, and combined stresses.

Prerequisites:

- ENGR 2301 (Engineering Mechanics – Statics)

ESOL - English for Speakers of other Languages

ENGL 1311. Intermediate ESOL Oral Communication. (3-1-3). L.

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.

ESOL 0310. Beginning ESOL Oral Communication. (3-1-3). L.

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.

ESOL 0312. Advanced ESOL Oral Communication. (3-1-3). L.

(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.

ESOL 0315. Advanced ESOL Oral Communication. (3-1-3). L.

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.)

ESOL 0320. Beginning ESOL Reading and Vocabulary. (3-1-3). L.

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.

ESOL 0321. Intermediate ESOL Reading and Vocabulary. (3-1-3). L.

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.

ESOL 0322. Advanced ESOL Reading and Vocabulary. (3-1-3). L.

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.

ESOL 0325. Advanced ESOL Reading and Vocabulary. (3-1-3). L.

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.

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. (3-1-3). L.

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

ESOL 0331. Intermediate Grammar for Non-Native Speakers. (3-1-3). L.

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

ESOL 0332. Advanced Grammar for Non-Native Speakers. (3-1-3). L.

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

ESOL 0335. Advanced Grammar for Non-Native Speakers. (3-1-3). L.

Focuses on Standard English grammar usage for academic purposes. Open only to non-native speakers.

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. (1-3-3). L.

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers.

ESOL 0341. Intermediate Writing for Non-Native Speakers. (3-1-3). L.

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers

ESOL 0342. Advanced Writing for Non-Native Speakers. (3-1-3). L.

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers.

ESOL 0345. Advanced Writing for Non-Native Speakers. (1-3-3). AL.

Focuses on strategies and techniques of writing and composition. Open only to non-native speakers.

Restrictions:

- This is a NCBO course, which is non-semester-length, non-course competency-based option and intervention.

FCEL - Fuel Cells (WECM)

FCEL 1305. Fuel Cell and Alternative Renewable Energy. (2-3-3). L.

Types and applications of alternative/renewable energy sources. Emphasizes fuel cell applications and processes, reformation of fuels, heat transfer, chemical reaction, power conditioning, combined heat and power, and distributed generation systems.

FDST - Food Science (WECM)

FDST 1270. Wine Laws and Regulations. (2-0-2). L.

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.

FDST 1271. Distillery Operations. (1-2-2). L.

Analyze the operation of various sizes and styles of stills as well as the safety requirements of operating a commercial distillery.

FDST 1272. Vodka Production. (1-2-2). L.

Demonstrate the production of vodka through the use of various substrates.

FDST 1273. Rum Production. (1-2-2). L.

Demonstrate the production of rum through the use of various sugar substrates.

FDST 1274. Cider Production. (1-2-2). L.

Demonstrate the production of cider through the use of various substrates

FDST 1291. Special Topics in Food Service - Brandy. (1-3-2). L.

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.

FDST 1291. Special Topics in Food Science - Cider. (1-3-2). L.

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.

FDST 1320. Principles of Enology I. (2-3-3). L.

Principles and practices of wine production including the history, and development of the wine industry, factors affecting wine quality, winemaking operations, and sensory evaluation of wines.

FDST 1323. Principles of Viticulture I. (2-3-3). L.

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.

FDST 1370. Grapevine Biology. (2-3-3). L.

The study of grapevine biology including taxonomy, distribution, morphology, physiology, genetics, and improvement.

FDST 2286. Internship – Food Science. (0-8-2). L.

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.

FDST 2319. Principles of Enology II. (2-3-3). L.

Continuation of FDST 1320. Designed for training students entering the field of viticulture and enology in safety, sanitation procedures, analysis, and operation of winery equipment.

Prerequisites:

- FDST 1320 (Principles of Enology I)

FDST 2320. Principles of Viticulture II. (2-3-3). L.

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.

Prerequisites:

- FDST 1323 (Principles of Viticulture I)

FDST 2330. Analysis of Must and Wine. (2-3-3). L.

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.

FDST 2335. Winegrowing Regions of the World. (2-3-3). L.

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.

FDST 2371. Grape and Wine Chemistry. (2-3-3). L.

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.

FDST 2372. Gin and Absinthe Production. (2-2-3). L.

Demonstrate the use of various botanicals in the distillation of gin.

FDST 2373. Brandy Production. (2-2-3). L.

Demonstrate the production of brandy through the use of various fruit substrates.

FDST 2374. Whiskey Production. (2-2-3). L.

Demonstrate the production of whiskey through the use of various sugar substrates.

FDST 2375. Tequila Production. (2-2-3). L.

Demonstrate the production of tequila through the use of various sugar substrates.

FDST 2433. Wine Types and Sensory Evaluation. (3-3-4). L.

A study of the major types of wines with an emphasis on the development of sensory evaluation techniques.

GAME - Game Design

GAME 2349. Artificial Intelligence Programming II. (2-4-3). L.

Advanced topics in artificial intelligence as applied to game and simulation programming. Includes applications of the principles of inductive learning, concept formation, decision tree learning, and neural networks.

GEOG - Geography

GEOG 1302. Human Geography. (3-0-3). L.

This course introduces students to fundamental concepts, skills, and practices of human geography. Place, space, and scale serve as a framework for understanding patterns of human experience. Topics for discussion may include globalization, population and migration, culture, diffusion, political and economic systems, language, religion, gender, and ethnicity.

GEOG 1303. World Regional Geography. (3-0-3). L.

This course is an introduction to the world's major regions seen through their defining physical, social, cultural, political, and economic features. These regions are examined in terms of their physical and human characteristics and their interactions. The course emphasizes relations among regions on issues such as trade, economic development, conflict, and the role of regions in the globalization process.

GEOL - Geology

GEOL 1101. Earth Sciences for Non-Science Majors I LAB. (0-2-1). L.

This laboratory-based course accompanies GEOL 1301, Earth Sciences I. Activities will cover methods used to collect and analyze data in geology, meteorology, oceanography, and astronomy.

Prerequisites:

- College readiness in reading required.

Corequisites:

- GEOL 1301 (Earth Science for Non-Science Majors I)

GEOL 1103. Physical Geology LAB. (0-2-1). L.

This laboratory-based course accompanies GEOL 1303, Physical Geology. Laboratory activities will cover methods used to collect and analyze earth science data.

Prerequisites:

- College readiness in reading required.

Corequisites:

- GEOL 1303 (Physical Geology)

GEOL 1104. Historical Geology LAB. (0-2-1). L.

This laboratory-based course accompanies GEOL 1304, Historical Geology. Laboratory activities will introduce methods used by scientists to interpret the history of life and major events in the physical development of Earth from rocks and fossils.

Prerequisites:

- College readiness in reading required.

Corequisites:

- GEOL 1304 (Historical Geology)

GEOL 1105. Environmental Science LAB. (0-2-1). L.

This laboratory-based course accompanies GEOL 1305, Environmental Science (lecture). Activities will cover methods used to collect and analyze environmental data.

Prerequisites:

- College readiness in reading required.

Corequisites:

- GEOL 1305 (Environmental Science)

GEOL 1301. Earth Science for Non-Science Majors I. (3-0-3). L.

Survey of geology, meteorology, oceanography, and astronomy.

Prerequisites:

- College readiness in reading required.

Corequisites:

- GEOL 1101 (Earth Sciences for Non-Science Majors I LAB)

GEOL 1303. Physical Geology. (3-0-3). L.

Introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations.

Prerequisites:

- College readiness in reading required.

Corequisites:

- GEOL 1103 (Physical Geology LAB)

GEOL 1304. Historical Geology. (3-0-3). L.

A comprehensive survey of the history of life and major events in the physical development of Earth as interpreted from rocks and fossils.

Prerequisites:

- College readiness in reading is required.
- GEOL 1103 (Physical Geology LAB)
- GEOL 1303 (Physical Geology)

Corequisites:

- GEOL 1104 (Historical Geology LAB)

GEOL 1305. Environmental Science. (3-0-3). L.

A survey of the forces, including humans, which shape our physical and biologic environment, and how these affect life on Earth. Introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources.

Prerequisites:

- College readiness in reading required.

Corequisites:

- GEOL 1105 (Environmental Science LAB)

GOVT - Government

GOVT 2304. Introduction to Political Science. (3-0-3). L.

Introductory survey of the discipline of political science focusing on the scope, and methods of the field, and the substantive topics in the discipline including the theoretical foundations of politics, political interaction, political institutions and how political systems function. (R,W)

GOVT 2305. Federal Government. (3-0-3). L.

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. (R,W)

GOVT 2306. Texas Government. (3-0-3). L.

Origin and development of the Texas constitution, structure and powers of state and local government, federalism and intergovernmental relations, political participation, the election process, public policy, and the political culture of Texas. (R,W)

HALT - Horticulture and Landscape Technology (WECM)

HALT 2323. Horticultural Pest Control. (3-0-3). L.

Examination of federal, state, and local laws and regulations governing the control of horticultural pests. Topics include procedures; methods; safety requirements; Integrated Pest Management (IPM); and chemical, natural, and biological controls.

HAMG - Hospitality Administration (WECM)

HAMG 1213. Front Office Management. (2-1-2). L.

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.

HAMG 1300. Introduction to the Casino and Gaming Industry. (2-2-3). L.

Overview of casino and gaming operations including the economic impact on the hospitality industry and its surrounding community.

HAMG 1321. Introduction to Hospitality Industry. (3-1-3). L.

An exploration of the elements and career opportunities within the multiple segments of the hospitality industry.

HAMG 2167. Practicum (or Field Experience) - Hospitality Administration/Management, General. (0-10-1). L.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

HAMG 2301. Principles of Food and Beverage Operations. (3-0-3). L.

An overview of food and beverage management in various hospitality environments. Emphasizes cost controls from procurement to marketing and sales.

HAMG 2305. Hospitality Management and Leadership. (3-0-3). L.

An overview of management and leadership in the hospitality industry with an emphasis on management philosophy, policy formulation, communications, motivation, and team building.

HAMG 2332. Hospitality Financial Management. (3-0-3). L.

Methods and applications of financial management within the hospitality industry. Primary emphasis on sales accountability, internal controls, and report analysis.

HAMG 2337. Hospitality Facilities Management. (3-1-3). L.

Identification of hospitality building systems and facilities; to include sustainability and risk management.

HART - Heating, Ventilation and Refrigeration Technology (WECM)

HART 1168. Practicum (or Field Experience) - Heating, Air Conditioning, and Refrigeration. (0-7-1). L.

Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences may be paid or unpaid. This course may be repeated if topics and learning outcomes vary.

HART 1401. Basic Electricity for HVAC. (3-4-4). L.

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.

HART 1407. Refrigeration Principles. (3-4-4). L.

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.

HART 1441. Residential Air Conditioning. (3-2-4). L.

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.

Prerequisites:

- HART 1401 (Basic Electricity for HVAC)
- HART 1407 (Refrigeration Principles)

HART 1445. Gas and Electric Heating. (3-2-4). L.

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.

Prerequisites:

- HART 1401 (Basic Electricity for HVAC)
- HART 1407 (Refrigeration Principles)

HART 2168. Practicum (or Field Experience - Heating, Air Conditioning, and Refrigeration). (0-7-1). L.

Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences may be paid or unpaid. This course may be repeated if topics and learning outcomes vary.

HART 2342. Commercial Refrigeration. (2-3-3). L.

Theory and practical application in the maintenance of commercial refrigeration; medium, and low temperature applications and ice machines.

HART 2345. Air Conditioning Systems Design. (2-3-3). L.

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.

HART 2436. Air Conditioning Troubleshooting. (3-2-4). L.

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.

Prerequisites:

- HART 1401 (Basic Electricity for HVAC)
- HART 1407 (Refrigeration Principles)

HART 2449. Heat Pumps. (3-2-4). L.

A study of heat pumps, heat pump control circuits, defrost controls, auxiliary heat, airflow, 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 the different methods of accomplishing defrost; charge a system correctly in the heating and cooling mode; troubleshoot electrical and mechanical components; perform tests for adequate airflow, and determine the balance point and co-efficiencies of performance (C.O.P.); and define attributes of geothermal heat pump systems.

Prerequisites:

- HART 1401 (Basic Electricity for HVAC)
- HART 1407 (Refrigeration Principles)

HIST - History

HIST 1301. United States History I. (3-0-3). L.

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. (R,W)

HIST 1302. United States History II. (3-0-3). L.

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. (R,W)

HIST 2301. Texas History. (3-0-3). L.

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. (R,W)

HIST 2311. Western Civilization I. (3-0-3). L.

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. (R,W)

HIST 2312. Western Civilization II. (3-0-3). L.

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. (R,W)

HIST 2321. World Civilization I. (3-0-3). L.

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. (R,W)

HIST 2322. World Civilization II. (3-0-3). L.

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. (R,W)

HITT - Health Information and Medical Records Technology (WECM)

HITT 1005. Medical Terminology. (48). L.

Study of medical terms through word origin and structure. Introduction to abbreviations and symbols, surgical and diagnostic procedures, and medical specialties.

HITT 1305. Medical Terminology I. (2-3-3). L.

Study of medical terms through word origin and structure. Introduction to abbreviations and symbols, surgical and diagnostic procedures, and medical specialties.

HITT 1311. Health Information Systems. (3-1-3). L.

Introduction to health IT standards, health-related data structures, software applications, and enterprise architecture in health care and public health.

HITT 1341. Coding and Classification Systems. (2-3-3). L.

(SPRING ONLY) Fundamentals of coding rules, conventions, and guidelines using clinical classification systems.

HITT 1353. Legal and Ethical Aspects of Health Information. (3-1-3). L.

(SUMMER ONLY) Concepts of privacy, security, confidentiality, ethics, health care legislation, and regulations relating to the maintenance and use of health information.

HITT 2346. Advanced Medical Coding. (2-3-3). L.

(Summer Only) 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.

HPRS - Health Services (WECM)

HPRS 1303. End of Life Issues. (3-0-3). L.

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.

HPRS 2000. Pharmacology for Health Professionals. (48). L.

A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages.

HPRS 2300. Pharmacology for Health Professions. (3-0-3). L.

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.

HPRS 2301. Pathophysiology. (3-0-3). L.

Study of the pathology and general health management of diseases and injuries across the lifespan. Topics include etiology, symptoms, and the physical and psychological reactions to diseases and injuries.

HPRS 2302. Medical Terminology. (3-0-3). L.

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.

HPRS 2321. Medical Law and Ethics for Health Professionals. (3-0-3). L.

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.

HRPO - Human Resources Management (WECM)

HRPO 2301. Human Resources Management. (3-1-3). L.

Behavioral and legal approaches to the management of human resources in organizations.

HUMA - Humanities

HUMA 1301. Introduction to the Humanities I. (3-0-3). L.

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. (R,W)

HUMA 1302. Introduction to the Humanities II. (3-0-3). L.

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. (R,W)

HYDR - Hydraulics (WECM)

HYDR 1045. Hydraulics and Pneumatics. (96). L.

Discussion of the fundamentals of hydraulics and pneumatics, components of each system, and the operations, maintenance, and analysis of each system.

HYDR-1445. Hydraulics and Pneumatics. (3-3-4). L.

Discussion of the fundamentals of hydraulics and pneumatics, components of each system, and the operations, maintenance, and analysis of each system.

IFWA - Institutional Food Workers (WECM)

IFWA 1210. Nutrition and Menu Planning. (2-1-2). L.

Application of principles of nutrition in planning menus for the food service industry.

IMED - Digital Media (WECM)

IMED 1301. Introduction to Digital Media. (3-1-3). L.

Theories, elements, and hardware/software components of digital media. Emphasis on conceptualizing and producing digital media presentations.

IMED 1316. Web Design I. (3-1-3). L.

Instruction in web design and related graphic design including mark-up languages, and browser issues.

IMED 1341. Interface Design. (3-1-3). L.

Interface design process including selecting interfaces that are relative to a project's content and delivery system. Emphasis on aesthetic issues such as iconography, screen composition, colors, and typography.

IMED 2309. Internet Commerce. (3-1-3). L.

An overview of the Internet as a marketing and sales tool with emphasis on developing a prototype for electronic commerce.

Restrictions:

- Prerequisite: Web page design experience and familiarity with database concepts.

IMED 2313. Project Analysis and Design. (2-3-3). L.

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

IMED 2315. Web Page Design II. (3-1-3). L.

Mark-up language and advanced layout techniques for creating web pages. Emphasis on identifying the target audience and producing web sites according to World Wide Web Consortium (W3C) standards and legal issues.

INDS - Interior Design (WECM)

INDS 2405. Interior Design Graphics. (3-3-4). L.

Skill development in computer-generated graphics and technical drawings for interior design applications.

INMT - Manufacturing Engineering Technology (WECM)

INMT 1003. Industrial Maintenance Technology, Basic. (64). L.

An introduction to preventive maintenance of equipment associated with general industrial production. Instruction in diagnosing and repairing hydraulic, pneumatic and mechanical systems related to industrial equipment.

INMT 1017. Industrial Automation. (96). L.

Applications of industrial automation systems including identification of system requirements, equipment integration, motors, controllers, and sensors. Coverage of set-up, maintenance, and testing of the automated system.

INMT 1417. Industrial Automation. (3-3-4). L.

Applications of industrial automation systems including identification of system requirements, equipment integration, motors, controllers, and sensors. Coverage of set-up, maintenance, and testing of the automated system.

INMT 1419. Manufacturing Processes. (2-4-4). L.

Exploration of a variety of methods used in manufacturing. Theory and application of processes including but not limited to metal forming, welding, machining, heat treating, plating, assembly, process control considerations, casting and injection molding.

INMT 2045. Industrial Troubleshooting. (96). L.

An advanced study of the techniques used in troubleshooting various types of industrial equipment to include mechanical, electrical, hydraulic, and pneumatic systems and their control devices. Emphasis will be placed on the use of schematics and diagrams in conjunction with proper troubleshooting procedures.

INMT 2388. Internship- Manufacturing Technology/Technician. (1-8-3). L.

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.

Restrictions:

- Internship of 160 hours required.

ITMT 2305. Designing and Implementing a Server Infrastructure. (3-1-3). L.

This course covers planning and deploying a server infrastructure; designing and implementing network infrastructure services; designing and implementing network access services and Active Directory infrastructure.

INRW - Integrated Reading and Writing

INRW 0210. Integrated Reading and Writing. (0-2-2). L.

Integration of critical reading and academic writing skills. Successful completion of this course fulfills TSI requirements for reading and writing. This course is typically paired with ENGL 1301.

Restrictions:

- A student must enroll in the appropriate corequisite credit-bearing course, which is usually ENGL 1301.

ITMT - Information Technology Maintenance (WECM)

ITMT 2305. Designing and Implementing a Server Infrastructure. (3-1-3). L.

This course covers planning and deploying a server infrastructure; designing and implementing network infrastructure services; designing and implementing network access services and Active Directory infrastructure.

Restrictions:

- A student must enroll in the appropriate corequisite credit-bearing course, which is usually ENGL 1301.

ITNW - Computer Systems Networking (WECM)

ITNW 1308. Implementing and Supporting Client Operating Systems. (3-1-3). L.

The fundamentals of managing and configuring local, network, and distributed network clients. Topics may adapt to changes in industry practices

ITNW 1309. Fundamentals of Cloud Computing. (3-1-3). L.

Introduction to cloud computing from a business and technical perspective, including cloud concepts, services, architecture, system integration, connectivity, data center migration, administration, security, compliance and technical support. Coverage includes preparation for industry certifications. Topics may adapt to changes in industry practices.

ITNW 1325. Fundamentals of Networking Technologies. (2-3-3). L.

Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.

ITNW 1351. Fundamentals of Wireless LANs. (3-1-3). L.

Design, plan, implement, operate, and troubleshoot Wireless Local Area Networks (WLANs). Includes WLAN design, installation, and configuration; and WLAN security issues and vendor interoperability strategies.

ITNW 1354. Implementing and Supporting Servers. (3-1-3). L.

Implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment.

ITNW 1392. Special Topics in Computer Systems/Networking and Telecommunications. (2-3-3). L.

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)

ITNW 2312. Routers. (3-1-3). L.

Router configuration for local area networks and wide area networks. Includes Internet Protocol (IP) addressing techniques and intermediate routing protocols.

ITNW 2327. Advanced Cloud Concepts. (3-1-3). L.

Focus on enterprise Cloud architecture, with advanced topics including multi-Cloud platforms inclusive of computing, networking, storage, monitoring and database.

ITNW 2355. Server Virtualization. (3-1-3). L.

An in-depth study of the installation, configuration, management and troubleshooting of a virtualized server environment.

Prerequisites:

- ITNW 1354 (Implementing and Supporting Servers)
  OR
- ITNW 1354 (Implementing and Supporting Servers)
  OR
- ITSY 1300 (Fundamentals of Information Security)

ITSC - Information Sciences (WECM)

ITSC 1305. Introduction to PC Operating Systems. (2-3-3). L.

Introduction to personal computer operating systems including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities.

ITSC 1309. Integrated Software Applications 1. (2-3-3). L.

Introduction to business productivity software suites using word processing, spreadsheets, databases, and/or presentation software.

ITSC 1316. Linux Installation and Configuration. (2-4-3). L.

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.

ITSC 1325. Personal Computer Hardware. (2-3-3). L.

Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting.

ITSC 1342. Shell Programming. (3-1-3). L.

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.

Prerequisites:

- ITSC 1316 (Linux Installation and Configuration)

ITSC 1391. Special Topics in Computer and Information Systems, General. (2-3-3). L.

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. Course may be repeated for credit when topics vary. This course was designed to be repeated multiple times to improve student proficiency.

Restrictions:

- Will vary based on topics covered and will be annotated in each semester’s class schedule
- Lab required

ITSC 2321. Integrated Software Applications II. (2-3-3). L.

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 media software.

ITSC 2325. Advanced Linux. (2-4-3). L.

Provides instruction in advance open-source Linux operating system. Develops directory services for clients, support users remotely, and install and configure network services.

Prerequisites:

- ITSC 1316 (Linux Installation and Configuration)

ITSC 2339. Personal Computer Help Desk Support. (3-1-3). L.

Diagnosis and solution of user hardware and software related problems with on-the-job and/or simulated projects.

ITSE - Computer Programming (WECM)

ITSE 1359. Introduction to Scripting Languages. (3-1-3). L.

Introduction to scripting languages including basic data types, control structures, regular expressions, input/output, and textual analysis. Topics may adapt to changes in industry practices.

ITSE 1391. Special Topics: Advanced AI Programming. (3-1-3). L.

This course provides an in-depth exploration of advanced techniques used in modern artificial intelligence systems, with a strong focus on hands-on programming, algorithmic understanding, and real-world application. Students will move beyond foundational AI concepts to study cutting-edge methods in machine learning, deep learning, generative modeling, autonomous agents, and large-scale AI system design.

ITSE 2386. Internship – Computer Programming/Programmer, General. (0-18-3). L.

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.

ITSW - Data Processing Technologies (WECM)

ITSW 1304. Introduction to Spreadsheets. (2-2-3). L.

Instruction in the concepts, procedures, and application of electronic spreadsheets.

ITSW 1307. Introduction to Database. (3-1-3). L.

Introduction to relational and non-relational database theory and the practical applications of contemporary databases. Topics may adapt to changes in industry practices.

ITSW 2380. Cooperative Education - Data Processing and Data Processing Technology/Technician. (5-0-3). L.

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. Includes a lecture component.

Restrictions:

- Sophomore standing or consent of the instructor.
- This course requires 283 hours of lab work.

ITSW 2437. Advanced Database. (3-2-4). L.

Advanced concepts of database design and functionality.

ITSY - Information Security Systems (WECM)

ITSY 1300. Fundamentals of Information Security. (3-1-3). L.

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 also discussed.

ITSY 1342. Information Technology Security. (3-1-3). L.

Instruction in security for network computer hardware, software, virtualization, and data, including physical security; backup procedures; relevant tools; encryption; and protection from viruses. Topics may adapt to changes in industry practices.

Prerequisites:

- ITSY 1300 (Fundamentals of Information Security)

ITSY 2301. Firewalls and Network Security Design. (3-1-3). L.

Identify elements of secure network design that may include segmentation, Firewall implementation or a combination thereof to mitigate various types of security threats and attacks. Use Best Practices to design, implement, monitor, and manage a network security plan. Examine security incident postmortem reporting and ongoing network security activities.

Prerequisites:

- ITSY 1300 (Fundamentals of Information Security)

ITSY 2330. Intrusion Detection. (3-1-3). L.

Computer information systems security monitoring, intrusion detection, and crisis management. Includes alarm management, signature configuration, sensor configuration, and troubleshooting components. Emphasizes identifying, resolving, and documenting network crises and activating the response team.

Prerequisites:

- ITSY 1300 (Fundamentals of Information Security)

ITSY 2342. Incident Response & Handling. (3-1-3). L.

In-depth coverage of incident response and incident handling, including identifying sources of attacks and security breaches; analyzing security logs; recovering the system to normal; performing postmortem analysis; and implementing and modifying security measures.

Prerequisites:

- ITSY 1300 (Fundamentals of Information Security)

ITSY 2343. Computer System Forensics. (3-1-3). L.

In-depth study of system forensics including methodologies used for analysis of computer security breaches. Collect documents and evaluate evidence to perform postmortem analysis of a security breach.

Prerequisites:

- ITSY 1300 (Fundamentals of Information Security)

ITSY 2345. Network Defense and Countermeasures. (3-1-3). L.

This is a practical application and comprehensive course that includes the planning, design, and construction for a complex network that will sustain an attack, document events, and mitigate the effects of an attack.

Prerequisites:

- ITSY 1300 (Fundamentals of Information Security)

MATH - Mathematics

MATH 0220. Numerical Reasoning Lab. (0-2-0). L.

This course is designed to supplement the concepts learned in MATH 1332 and MATH 1342.

Restrictions:

- Concurrent enrollment in MATH 1332 or MATH 1342 is required.

MATH 0240. Transition to College Algebra Lab. (0-2-0). L.

This course is designed to supplement the concepts learned in MATH 1314.

Corequisites:

- MATH 1314 (College Algebra)

MATH 1314. College Algebra. (3-1-3). ALP.

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.

Restrictions:

- Prerequisites: Meet TSI college-readiness standard for mathematics, or equivalent
- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.

MATH 1316. Plane Trigonometry. (3-0-3). ALP.

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.

Restrictions:

- 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 prerequisite.

MATH 1324. Mathematics for Business and Social Sciences. (3-0-3). ALP.

The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming, and probability, including expected value.

Restrictions:

- Prerequisites: 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 prerequisite.

MATH 1325. Calculus for Business and Social Sciences. (3-0-3). ALP.

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 for MATH 2413, Calculus I.

Prerequisites:

- MATH 1314 (College Algebra)
  OR
- MATH 1324 (Mathematics for Business and Social Sciences)

MATH 1332. Quantitative Reasoning. (3-1-3). ALP.

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.

Restrictions:

- Prerequisite: Meet TSI College-readiness standard for mathematics; or equivalent.
- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.

MATH 1342. Elementary Statistical Methods. (3-1-3). ALP.

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)

Restrictions:

- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.
- Prerequisites: Meet TSI College-readiness standard for mathematics; or equivalent.

MATH 1350. Mathematics for Teachers I. (3-0-3). ALP.

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.

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 prerequisite.
- Equivalent preparation may substitute for MATH 1314 prerequisite

MATH 1351. Mathematics for Teachers II. (3-0-3). ALP.

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.

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 prerequisite.
- Equivalent preparation may substitute for MATH 1314 prerequisite

MATH 2305. Discrete Mathematics. (3-0-3). ALP.

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, countability and counting arguments, proof techniques, mathematical induction, combinatorics, discrete probability, recursion, sequence and recurrence, elementary number theory, graph theory, and mathematical proof techniques.

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 prerequisite.

MATH 2312. Pre-Calculus Math. (3-1-3). ALP.

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness.

Prerequisites:

- MATH 1314 (College Algebra)

Restrictions:

- Equivalent Preparation may substitute for MATH 1314 prerequisite
- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.

MATH 2318. Linear Algebra. (3-0-3). ALP.

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.

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 prerequisite.

MATH 2320. Differential Equations. (3-1-3). ALP.

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.

Prerequisites:

- MATH 2414 (Calculus II)

Restrictions:

- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.

MATH 2413. Calculus I. (4-1-4). ALP.

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.

Prerequisites:

- MATH 2312 (Pre-Calculus Math)

Restrictions:

- Equivalent preparation may substitute for MATH 2312 requirement
- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.

MATH 2414. Calculus II. (4-0-4). ALP.

Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals

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 prerequisite.

MATH 2415. Calculus III. (4-0-4). ALP.

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.

Prerequisites:

- MATH 2414 (Calculus II)

Restrictions:

- A grade of C or better must be earned to progress to a MATH course that uses this course as a prerequisite.

MCHN - Machine Tool Technology (WECM)

MCHN 1038. Basic Machine Shop. (128). L.

A course that introduces machining fundamentals. 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. Emphasis is placed on shop safety, housekeeping, and preventative maintenance.

MCHN 1302. Print Reading for Machining Trades. (3-1-3). L.

A study of blueprints for machining trades with emphasis on machine drawings.

MCHN 1320. Precision Tools and Measurement. (2-4-3). L.

An introduction to the modem 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.

MCHN 1371. Manufacturing Skills Standards Council Certification. (2-2-3). L.

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)

MCHN 1408. Basic Lathe. (2-6-4). L.

An introduction to the common types of lathes. Emphasis on basic parts, nomenclature, lathe operations, safety, machine mathematics, blueprint reading, and theory.

MCHN 1413. Basic Milling Operations. (2-6-4). L.

An introduction to the common types of milling machines, part nomenclature, basic machine operations and procedures, safety, machine mathematics, blueprint reading, and theory.

MCHN 1426. Introduction to Computer Aided manufacturing. (3-3-4). L.

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.

MCHN 1438. Basic Machine Shop I. (2-4-4). L.

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.

MCHN 1454. Intermediate Machining II. (2-6-4). L.

Development of job process plan to include operation of lathes, milling machines, drill presses, and power saws. Set-up, layout, and tool maintenance is included. Emphasis on shop safety and preventative maintenance.

MCHN 1458. Intermediate Lathe Operations. (2-6-4). L.

Continuation of Basic Lathe operations

MCHN 2402. Intermediate Milling Operations. (2-6-4). L.

A continuation of Basic Milling Operations

MCHN 2433. Advanced Lathe Operations. (2-6-4). L.

Identify and use of special lathe cutting tools and support tooling, such as, form tools, carbide inserts, taper attachments, follower and steady rest. Close tolerance machining required.

MCHN 2437. Advanced Milling Operations. (2-6-4). L.

Advanced milling machine operations. Identification and/or use of milling cutters and accessories.

MDCA - Medical Assistance

MDCA 1000. Basic Medical Assistant Technology. (32). L.

Introduction to medical office operations, equipment, procedures, and human relations skills.

MDCA 1009. Anatomy and Physiology for Medical Assistants. (64). L.

Emphasis on structure and function of human cells, tissues, organs, and systems with overview of common pathophysiology.

MDCA 1060. Clinical Medical/Clinical Assistant. (64). L.

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.

MDCA 2031. Advanced Medical Assistant Technology. (32). L.

Focuses on the theory and application of administration and clinical skills.

MLAB - Medical Laboratory Technician (WECM)

MLAB 1127. Coagulation. (0-3-1). L.

A course in coagulation theory, procedures, and practical applications. Includes quality control, quality assurance, safety and laboratory procedures which rely on commonly performed manual and/or semi-automated methods.

Restrictions:

- A grade of “C” or better is required for graduation.

MLAB 1201. Introduction to Clinical Laboratory Science. (1-4-2). L.

An introduction to clinical laboratory science, including quality control, laboratory math, safety, laboratory equipment, laboratory settings, accreditation, certification, professionalism, and ethics. Acceptance into MLT-AAS Program required. A grade of "C" or better is required to progress.

Restrictions:

- A grade of "C" or better is required for graduation.

MLAB 1231. Parasitology/Mycology. (1-4-2). L.

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.

Restrictions:

- A grade of “C” or better is required for graduation.

MLAB 1291. Special Topics MLT. (1-4-2). L.

An introductory study to include fundamental microbiology concepts and skills, basic mathematics, and elementary chemistry as they apply specifically to medical laboratory science.

Restrictions:

- A grade of "C" or better is required for graduation.

MLAB 1311. Urinalysis and Body Fluids. (2-4-3). L.

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.

Restrictions:

- A grade of “C” or better is required for graduation.

MLAB 1315. Hematology. (2-4-3). L.

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 with associated diseases.

Restrictions:

- A grade of “C” or better is required for graduation.

MLAB 1335. Immunology/Serology. (2-4-3). L.

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.

Restrictions:

- A grade of “C” or better is required for graduation.

MLAB 2238. Advanced Topics in Medical Laboratory Technician. (1-4-2). L.

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.

Restrictions:

- All MLT courses must be completed or taken concurrently with a grade of “C” or better within program requirements.

MLAB 2331. Immunohematology. (2-4-3). L.

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.

Restrictions:

- A grade of “C” or better is required for graduation.
- Previous completion of MLAB 1335 with a grade "C" or better.

MLAB 2401. Clinical Chemistry. (2-6-4). L.

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.

Restrictions:

- A grade of “C” or better is required for graduation.
- Previous completion of MLAB 1291 with a grade of “C” or better.

MLAB 2434. Clinical Microbiology. (2-6-4). L.

Introduction in the theory, practical application, and pathogenesis of clinical microbiology, including collection, quality control, quality assurance, safety, setup, identification, susceptibility testing, and reporting results.

Restrictions:

- A grade of “C” or better is required for graduation.
- Previous completion of MLAB 1291 with a grade of “C” or better.

MLAB 2660. Clinical II. (0-0-6). L.

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.

Restrictions:

- Concurrent enrollment in MLAB 2661 required.
- This course requires 18 lab hours.
- Previous completion of MLAB 2238 with a grade of "C" or better.
- Acceptable scores in college readiness exam, pre-entrance health exam, documentation of required immunizations, pass drug screen, pass a criminal background check, documentation of CPR for Healthcare Providers from American Heart Association. There are 16 hours of required college core academic courses that must be completed prior to graduation. These can be taken prior to entry into the program or concurrently.

MLAB 2661. Clinical III. (0-0-6). L.

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.

Corequisites:

- MLAB 2660 (Clinical II)

Restrictions:

- All MLT courses must be completed with a grade of “C” or better within program requirements.
- Acceptable scores in college readiness exam, pre-entrance health exam, documentation of required immunizations, pass drug screen, pass a criminal background check, documentation of CPR for Healthcare Providers from American Heart Association. There are 16 hours of required college core academic courses that must be completed prior to graduation. These can be taken prior to entry into the program or concurrently.

MRKG - Marketing (WECM)

MRKG 1191. Wine Marketing. (1-0-1). L.

Marketing principles, marketing audit, developing a marketing plan, product, promotion, pricing, place and developing new markets.

MRKG 1200. Customer Service. (2-0-2). L.

Introduction of techniques to create excellent customer service.

MRKG 1302. Principles of Retailing. (3-0-3). L.

Introduction to the retailing environment, types of retailers, current trends, the employment of retailing techniques, and the factors that influence retailing.

MRKG 1311. Principles of Marketing. (3-0-3). L.

Introduction to the marketing mix functions and process. Includes identification of consumer and organizational needs and explanation of environmental issues.

MRKG 2333. Principles of Selling. (3-0-3). L.

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.

MUAP - Applied Music

MUAP 11XX. Freshmen 30 Minute Lessons. (0-1-1). L.

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).

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. (0-2-2). L.

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).

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. (0-1-1). L.

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).

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. (0-2-2). L.

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).

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 - Music Ensemble

MUEN 1124. Concert Band I. (0-3-1). L.

Large ensemble involving band instruments and literature designed to allow student to perform quality instrumental music. Open to all instrumentalists.

Restrictions:

- May be repeated one time for credit.

MUEN 1131. Strings Chamber Ensemble I. (0-3-1). L.

Small ensemble involving stringed instruments and literature designed to allow students to perform quality music in a small setting. Open to all students.

Restrictions:

- May be repeated one time for credit.

MUEN 1132. Jazz Combo Chamber Ensemble I. (0-3-1). L.

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.

Restrictions:

- May be repeated one time for credit.

MUEN 1133. Mixed Chamber Ensemble I. (0-3-1). L.

Small ensemble involving mixed band instruments and literature designed to allow students to perform quality music in a small setting. Open to all students.

Restrictions:

- May be repeated one time for credit.

MUEN 1134. Guitar Ensemble I. (0-3-1). L.

Small ensemble involving guitars and literature designed to allow students to perform quality music in a small setting. Open to all students.

Restrictions:

- May be repeated one time for credit.

MUEN 1135. Piano Ensemble I. (0-3-1). L.

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.

MUEN 1141. Choir. (0-3-1). L.

Open to all students. A large ensemble designed to allow students to perform quality choral music.

Restrictions:

- May be repeated one time for credit.

MUEN 2124. Concert Band II. (0-3-1). L.

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.

Prerequisites:

- MUEN 1124 (Concert Band I)

Restrictions:

- May be repeated one time for credit.

MUEN 2131. String Chamber Ensemble II. (0-3-1). L.

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.

Prerequisites:

- MUEN 1131 (Strings Chamber Ensemble I)

Restrictions:

- May be repeated one time for credit.

MUEN 2132. Jazz Combo Chamber Ensemble II. (0-3-1). L.

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.

Prerequisites:

- MUEN 1132 (Jazz Combo Chamber Ensemble I)

Restrictions:

- May be repeated one time for credit.

MUEN 2133. Mixed Chamber Ensemble II. (0-3-1). L.

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.

Prerequisites:

- MUEN 1133 (Mixed Chamber Ensemble I)

Restrictions:

- May be repeated one time for credit.

MUEN 2134. Guitar Ensemble II. (0-3-1). L.

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

Prerequisites:

- MUEN 1134 (Guitar Ensemble I)

Restrictions:

- May be repeated one time for credit.

MUEN 2141. Advanced Choir. (0-3-1). L.

Open to students who have already taken two semesters of MUEN 1141. A large ensemble designed to allow students to perform quality choral music.

Prerequisites:

- MUEN 1141 (Choir)

Restrictions:

- May be repeated one time for credit.

MUSB - Music Management (WECM)

MUSB 1305. Survey of the Music Business. (3-0-3). L.

An overview of the music industry including songwriting, live performance, the record industry, music merchandising, contracts and licenses, and career opportunities.

MUSC - Recording Arts Technology (WECM)

MUSC 1213. Commercial Music Theory I. (1-2-2). L.

Introduction to chord progressions, song forms, and harmonic techniques used in commercial music. Topics include modern chord notation and chord voicings.

MUSC 1321. Songwriting I. (2-3-3). L.

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.

MUSC 1327. Audio Engineering I. (2-4-3). L.

The tools, personnel and standard workflow of a recording studio. Topics include fundamentals of sound and overview of tracking, editing, and mixing audio.

MUSC 2201. Audio Engineering Practices. (0-4-2). L.

Application of the concepts and techniques presented in Audio Engineering I and II.

End-of-Course Outcomes:

1. Identify and troubleshoot
   procedural and/or technical problems which may arise in the
   audio studio; and
2. demonstrate the use of audio consoles,
   multi-track recorders, and signal processing.

Corequisites:

- MUSC 2327 (Audio Engineering II)

MUSC 2327. Audio Engineering II. (2-4-3). L.

Implementation of the recording process, microphones, audio console, multi-track recorder, and signal processing devices.

Prerequisites:

- MUSC 1327 (Audio Engineering I)

Corequisites:

- MUSC 2201 (Audio Engineering Practices)

MUSI - Music

MUSI 1116. Sight Singing & Ear Training I. (0-3-1). L.

Singing tonal music in treble and bass clefs, and aural study of elements of music, such as scales, intervals and chords, and dictation of basic rhythm, melody and diatonic harmony.

Corequisites:

- MUSI 1181 (Piano Class I)
- MUSI 1311 (Music Theory I)

Restrictions:

- MUSI 1116 is only offered in the fall semester.

MUSI 1117. Sight Singing & Ear Training II. (0-3-1). L.

Singing tonal music in various clefs, continued aural study of the elements of music, and dictation of intermediate rhythm, melody and diatonic harmony.

Prerequisites:

- MUSI 1116 (Sight Singing & Ear Training I)

Corequisites:

- MUSI 1182 (Piano Class II)
- MUSI 1312 (Music Theory II)

Restrictions:

- MUSI 1117 is only offered in the spring semester.

MUSI 1157. Opera Workshop. (0-3-1). L.

A study of the synthesis of singing and acting through the performance of opera.

MUSI 1181. Piano Class I. (1-1-1). L.

Beginning class instruction in the fundamentals of keyboard technique.

Corequisites:

- MUSI 1116 (Sight Singing & Ear Training I)
- MUSI 1311 (Music Theory I)

MUSI 1182. Piano Class II. (1-1-1). L.

Advance beginning class instruction in the fundamentals of keyboard technique.

Prerequisites:

- MUSI 1181 (Piano Class I)

Corequisites:

- MUSI 1117 (Sight Singing & Ear Training II)
- MUSI 1312 (Music Theory II)

MUSI 1183. Voice Class I. (1-1-1). L.

Class instruction in the fundamentals of singing including breathing, tone production, and diction. Designed for students with little or previous voice training. Does not apply to a music major degree.

MUSI 1192. Guitar Class I. (1-1-1). L.

Class instruction in fundamental guitar playing, including technique, music-reading, fretboard theory, melodic and harmonic realizations.

MUSI 1303. Fundamentals of Music. (3-0-3). L.

Introduction to the basic elements of music theory, including scales, intervals, keys, triads, elementary ear training, notation, meter, and rhythm. Course does not apply to a music major degree.

MUSI 1306. Music Appreciation. (3-0-3). L.

Understanding music through the study of cultural periods, major composers, and musical elements, illustrated with audio recordings and live performances. Course does not apply to music major degree. RW

MUSI 1307. Music Literature. (3-0-3). L.

A Survey of the styles and forms of music as it developed from the middle ages to the present. This course will familiarize the student with cultural context terminology, genres, and notation.

MUSI 1310. American Music. (3-0-3). L.

A general survey of various styles of music of the Americas, including but not limited to jazz, folk, rock, and contemporary music. RW

MUSI 1311. Music Theory I. (3-0-3). L.

The study of analysis and writing of tonal melody and diatonic harmony, including fundamental music concepts, scales, intervals, chords, 7th chords, and early four-part writing. Analysis of small compositional forms. Optional correlated study at the keyboard. Students must take MUSI 1116, Sight Singing & Ear Training I, and MUSI 1181, Piano Class I, concurrently. MUSI 1311 is only offered in the Fall semester.

Corequisites:

- MUSI 1116 (Sight Singing & Ear Training I)
- MUSI 1181 (Piano Class I)

Restrictions:

- MUSI 1311 is only offered in the Fall semester.

MUSI 1312. Music Theory II. (3-0-3). L.

The study of analysis and writing of tonal melody and diatonic harmony, including all diatonic chords and seventh chords in root position and inversions, non-chord tones, and functional harmony. Introduction to more complex topics, such modulation may occur. Optional correlated study at the keyboard.

Prerequisites:

- MUSI 1311 (Music Theory I)

Corequisites:

- MUSI 1117 (Sight Singing & Ear Training II)
- MUSI 1182 (Piano Class II)

Restrictions:

- MUSI 1312 is only offered in the spring semester.

MUSI 2116. Sight Singing & Ear Training III. (0-3-1). L.

Singing more difficult tonal music in various clefs, aural study including dictation of more complex rhythm, melody, chromatic harmony, and extended tertian structures. Students must take MUSI 2311, Music Theory III, and MUSI 2114, Piano Class for Music Majors III, concurrently. MUSI 2116 is only offered in the Fall semester.

Prerequisites:

- MUSI 1117 (Sight Singing & Ear Training II)

Corequisites:

- MUSI 2181 (Piano Class III)
- MUSI 2311 (Music Theory III)

Restrictions:

- MUSI 2116 in only offered in the Fall semester.

MUSI 2117. Sight Singing & Ear Training IV. (0-3-1). L.

Singing advanced tonal music and introduction of modal and post-tonal melodies. Aural study including dictation of advanced rhythm, melody, and harmony. Students must take MUSI 2312, Theory of Music IV, and MUSI 2182, Piano Class IV, concurrently. MUSI 2117 is only offered in the Spring.

Prerequisites:

- MUSI 2116 (Sight Singing & Ear Training III)

Corequisites:

- MUSI 2182 (Piano Class IV)
- MUSI 2312 (Music Theory IV)

Restrictions:

- MUSI 2117 is only offered in the Spring.

MUSI 2181. Piano Class III. (0-3-1). L.

Intermediate class instruction of keyboard technique.

MUSI 2182. Piano Class IV. (0-3-1). L.

Advanced class instruction of keyboard technique.

Prerequisites:

- MUSI 2182 (Piano Class IV)

MUSI 2311. Music Theory III. (3-0-3). L.

Advanced harmony voice leading, score analysis and writing of more advanced tonal harmony including chromaticism and extended-tertian structures. Optional correlated study at the keyboard. Students must take MUSI 2116, Sight Singing & Ear Training III, and MUSI 2181, Piano Class III, concurrently. Music 2311 is only offered in the Fall semester.

Prerequisites:

- MUSI 1312 (Music Theory II)

Corequisites:

- MUSI 2116 (Sight Singing & Ear Training III)
- MUSI 2181 (Piano Class III)

Restrictions:

- Music 2311 is only offered in the Fall semester

MUSI 2312. Music Theory IV. (3-0-3). L.

Continuation of advanced chromaticism and survey of analytical and compositional procedures in post-tonal music. Optional correlated study at the keyboard. Students must take MUSI 2117, Sight Singing & Ear Training IV, and MUSI 2182, Piano Class IV, concurrently. Music 2312 is only offered in the Spring semester

Prerequisites:

- MUSI 2311 (Music Theory III)

Corequisites:

- MUSI 2117 (Sight Singing & Ear Training IV)
- MUSI 2182 (Piano Class IV)

Restrictions:

- MUSI 2312 is only offered in the Spring semester

MUSP - Music Performance (WECM)

MUSP 1110. Applied Commercial Music: Piano. (1-1-1). L.

Private instruction in piano with goals related to commercial music.

NUPC - Nursing Assistant Patient Care

NUPC 1020. Patient Care Technician/Assistant. (96). L.

Training, skills, and knowledge needed to gain employment as a Patient Care Technician in a hospital setting.

NUPC 1060. Clinical - Nursing Assistant/Aide and Patient Care Assistant/Aide. (64). L.

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.

NURA - Nursing Assistant

NURA 1001. Nurse Aide for Health Care. (96). L.

Knowledge, skills, and abilities essential to provide basic care to residents of long-term care facilities. Topics include resident's rights, communication, safety, observation, reporting and assisting residents in maintaining basic comfort and safety. Emphasis on effective interaction with members of the health care team, restorative services, mental health, and social services needs.

NURA 1060. Clinical - Nursing Assistant/Aide and Patient Care Assistant/Aide. (48). L.

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.

NURS - RN to BSN

NURS 3244. Issues & Trends in Nursing. (2-0-2). L.

This course provides registered nurses with an overview of the evolution of nursing as a profession. Examine changes in the U.S. healthcare delivery system, the importance of information technology, and measures that promote quality, safety, and better health outcomes in patient care. Consider major issues and trends in contemporary nursing and healthcare practice, including the influence of socioeconomic, ethical, legal, and political variables and professional values.

NURS 3301. Health Assessment. (2-3-3). L.

This course focuses on the registered nurse’s synthesis of nursing knowledge and skills to perform a comprehensive health assessment of individuals across the lifespan.

Prerequisites:

- NURS 3324 (Nursing Research)

NURS 3313. Pathophysiology. (3-0-3). L.

This course facilitates the registered nurse's development of systems to manage the health deviations of the individual therapeutically. Concepts of health promotion, disease prevention, disease progression, and treatment are approached from a cellular and multisystem perspective. Influences of genetic, ethnic, and cultural variables on human diseases are analyzed. Content aims at stimulating critical thinking for application to nursing practice in a variety of clinical settings.

Prerequisites:

- NURS 3324 (Nursing Research)

NURS 3324. Nursing Research. (3-0-3). L.

This course introduces the basic concepts, processes, and applications of nursing research with a focus on the research role of the nurse in the delivery of quality patient care.

Restrictions:

- Must be accepted into program to enroll in course

NURS 4160. Community and Public Health Clinical. (0-3-1). L.

This course provides a health-related work-based learning experience within the community setting.

Prerequisites:

- NURS 3324 (Nursing Research)

Corequisites:

- NURS 4355 (Community and Public Health)

NURS 4232. Gerontological Nursing. (2-0-2). L.

This course examines the physiological, psychological, sociocultural and spiritual aspects of aging within the context of family and society. Emphasis is on trends, theories, evidence-based findings and multidimensional changes of aging and the use of the nursing process for addressing issues related to health promotion, risk reduction and disease prevention in well and frail and vulnerable older adults.

Prerequisites:

- NURS 3324 (Nursing Research)

NURS 4314. Nursing Theory. (3-0-3). L.

This course examines the theoretical and conceptual bases of nursing to encourage the student to critique, evaluate and utilize appropriate nursing theory within their own practice. Focus will be on a variety of theories from nursing.

Prerequisites:

- NURS 3324 (Nursing Research)

NURS 4326. Legal and Ethical Considerations in Nursing. (3-0-3). L.

This course for the registered nurse (RN) synthesizes ethical/legal concepts required for examination of sound decision making in clinical practice and legal responsibility. The focus is on value clarification, application of ethical theory, ethical decision-making models, and professional ethical standards. Emphasis is on ethical obligations of professional nurses in their roles as citizens, members of a profession, providers of care, and designers and managers of care.

Prerequisites:

- NURS 3324 (Nursing Research)

NURS 4341. Health Promotion Across the Lifespan. (3-0-3). L.

This course introduces the registered nurse to the concept of wellness across the lifespan. Students will examine the concepts of health and wellness, the determinants of health behavior, national health status, the history of health education and health promotion. The student will recognize health promotion as an important foundation for population-based health care.

Prerequisites:

- NURS 3324 (Nursing Research)

NURS 4355. Community and Public Health. (3-0-3). L.

This course discusses community health nursing including the history, structure, and economics of community healthcare systems, program development, and impact of health disparities, health education, and access to resources.

Prerequisites:

- NURS 3324 (Nursing Research)

Corequisites:

- NURS 4160 (Community and Public Health Clinical)

NURS 4454. Professional Project. (2-6-4). L.

This course requires the registered nurse to synthesize the knowledge acquired in the RN- BSN curriculum toward the development of the Professional Nursing role. Integrated content expectations are evolving issues, lifelong learning, impact of cultural issues, and promotion of the nursing profession. Practicum project required.

Prerequisites:

- NURS 3244, NURS 3301, NURS 3313, NURS 3324, NURS 4160, NURS 4232, NURS 4314, NURS 4326, NURS 4341, NURS 4355, NURS 4457

NURS 4457. Leadership and Management. (4-0-4). L.

This course explores leadership and management theories, resource allocation, the nurse as a change agent, member of the profession, communication, and quality improvement in the healthcare setting.

Prerequisites:

- NURS 3324 (Nursing Research)

OSHT - Occupational Safety and Health Technology (WECM)

OSHT 1301. Introduction to Safety and Health. (3-1-3). L.

An Introduction to the basic concepts of safety and health.

PFPB - Plumbing and Pipefitting (WECM)

PFPB 1008. Basic Pipefitting Skills. (96). L.

Mathematical operations necessary to calculate laying lengths of pipe fittings for fabrication. Identification and use of hand tools and power tools. Identification of pipe, pipe fittings, flanges, and fasteners used in the trade.

PFPB 1043. Pipefitting Fabrication and Blueprint Reading. (96). L.

Continuation of pipe fabrication, rigging, pipe hangers and supports, blueprint reading, standards and specifications, and trade math.

PFPB 2032. Advanced Pipefitting Standards, Specifications, and Installation. (96). L.

Skill development in motorized equipment, above-ground pipe installation valves, field routing and vessel trim, spring can supports, testing piping systems and equipment, basic plumbing, planning work activities, and Non-Destructive Testing (NDT).

PFPB 2033. Pipefitting: Advanced Fabrication and Installation. (96). L.

Advanced pipe fabrication and pipe alignment for rotating equipment. Includes identifying, describing, applying, and maintaining steam traps, in-line specialties, special piping, hot taps, and valves.

PHED - Physical Education

PHED 1110. General Activities. (0-3-1). L.

Fundamental instruction and participation in individual and team sports, including tennis, basketball, volleyball, and weight lifting.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 1111. Slimnastics. (0-3-1). L.

Exercise course which includes physical self-improvement through total fitness, physical fitness, and body improvement.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 1112. Weight Training and Conditioning. (0-3-1). L.

Introduction to basic conditioning exercises with primary instruction on proper stretching, weight lifting techniques, and aerobic conditioning methods.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 1115. Volleyball/Basketball. (0-3-1). L.

Rules, skills, techniques, and strategies of the two sports. Individual skills and team concepts. Emphasis on league and recreation utilization of the two sports.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 1116. Jogging and Conditioning. (0-3-1). L.

Designed to improve one’s fitness level including strength, muscular endurance, running techniques, etc.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 1130. Beginning Bowling. (0-3-1). L.

Scoring, rules of etiquette, basic skills, and recreational opportunities in community life.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 1131. Intermediate Bowling. (0-3-1). L.

Advanced skills, spare bowling, various types of ball delivery.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.
- Beginning Bowling or consent of division director.

PHED 1132. Advanced Bowling. (0-3-1). L.

Designed to further enhance individual bowling skills beyond technique and toward overall strategy of the game. Prerequisite: Intermediate Bowling or consent of division coordinator.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 1142. Varsity Sports I. (0-3-1). L.

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.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 1144. Varsity Conditioning I. (0-3-1). L.

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.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 1164. Introduction to Physical Fitness & Wellness. (0-3-1). L.

This course will provide an overview of the lifestyle necessary for fitness and health. Students will participate in physical activities and assess their fitness status. Students will be introduced to proper nutrition, weight management, cardiovascular health, flexibility, and strength training.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 1301. Foundations of Kinesiology. (3-0-3). L.

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.

Restrictions:

- Theory Course

PHED 1304. Personal & Community Health I. (3-0-3). L.

This course provides an introduction to the fundamentals, concepts, strategies, applications, and contemporary trends related to understanding personal and/or community health issues. This course also focuses on empowering various populations with the ability to practice healthy living, promote healthy lifestyles, and enhance individual well-being.

Restrictions:

- Theory Course

PHED 1306. First Aid. (3-0-3). L.

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.

Restrictions:

- Theory Course

PHED 1308. Sports Officiating I. (3-0-3). L.

The purpose of the course is to study officiating requirements for sports and games with an emphasis on mechanics, rule interpretation, and enforcement.

Restrictions:

- Theory Course

PHED 1321. Coaching/Sports/Athletics. (3-0-3). L.

Study of the history, theories, philosophies, rules, and terminology of competitive sports. Includes coaching techniques.

Restrictions:

- Theory Course

PHED 1338. Concepts of Physical Fitness. (3-0-3). L.

This course is designed to familiarize students with knowledge, understanding, and values of health-related fitness and its influence on the quality of life emphasizing the development and implementation of fitness programs.

Restrictions:

- Theory Course

PHED 1346. Drug Use and Abuse. (3-0-3). L.

Study of the use, misuse and abuse of drugs and other harmful substances in today's society. Physiological, Sociological, Pharmacological and Psychological factors will be emphasized.

PHED 2111. Yoga. (0-3-1). L.

Exercise course which includes instruction and participation in yoga

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 2112. Weight Training and Conditioning. (0-3-1). L.

Designed to further enhance individual conditioning, stretching, weight lifting techniques, and aerobic conditioning.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 2116. Jogging, Walking, and Conditioning II. (0-3-1). L.

Designed to further enhance one’s fitness level including strength, muscular endurance, running techniques, etc.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 2142. Varsity Sports II. (0-3-1). L.

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.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 2144. Varsity Conditioning II. (0-3-1). L.

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.

Restrictions:

- One-hour physical education activity courses are not designed for transfer.

PHED 2356. Care and Prevention of Athletic Injuries. (3-0-3). L.

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.

PHIL - Philosophy

PHIL 1301. Introduction to Philosophy. (3-0-3). L.

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. (R,W)

PHIL 1304. Introduction to World Religions. (3-0-3). L.

A comparative study of world religions, including but not limited to Hinduism, Buddhism, Judaism, Christianity, and Islam. (R,W)

PHIL 2306. Introduction to Ethics. (3-0-3). L.

The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals, and standards of value. (R,W)

PHIL 2321. Philosophy of Religion. (3-0-3). L.

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. (R,W)

PHRA - Pharmacy Assistant

PHRA 1001. Intro to Pharmacy. (40). L.

An overview of the qualifications, operational guidelines, and job duties of a pharmacy technician.

PHRA 1043. Pharmacy Tech Certification Review. (48). L.

A review of major topics covered on the national Pharmacy Technician Certification Examination (PTCE), Exam for the Certification of Pharmacy Technicians (ExCPT)

PHYS - Physics

PHYS 1101. College Physics I (lab). (0-3-1). L.

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.

Corequisites:

- PHYS 1301 (College Physics I)

PHYS 1102. College Physics II (lab). (0-3-1). L.

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.

Corequisites:

- PHYS 1302 (College Physics II)

PHYS 1103. Stars and Galaxies. (0-2-1). L.

Laboratory in the study of stars, galaxies, and the universe outside our solar system.

Prerequisites:

- College readiness in reading and math required

Corequisites:

- PHYS 1303 (Stars and Galaxies)

PHYS 1104. Solar System (lab). (0-2-1). L.

Laboratory in the study of the sun and its solar system, including its origin. Corequisite of PHYS 1304

Prerequisites:

- College readiness in reading and math is required.

Corequisites:

- PHYS 1304 (Solar System)

PHYS 1115. Physical Science Laboratory I. (0-2-1). L.

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology.

Corequisites:

- PHYS 1315 (Physical Science I)

Restrictions:

- College readiness in reading is required.

PHYS 1301. College Physics I. (3-0-3). L.

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; with emphasis on problem solving.

Prerequisites:

- MATH 1314 or 1414 (College Algebra) AND MATH 1316 (Plane Trigonometry); or Math 2312 or MATH 2412 (Pre-Calculus)
- College readiness in reading required

Corequisites:

- PHYS 1101 (College Physics I (lab))

PHYS 1302. College Physics II. (3-0-3). L.

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.

Prerequisites:

- PHYS 1301/1101 - College Physics I, or PHYS 1401 - College Physics I

Corequisites:

- PHYS 1102 (College Physics II (lab))

PHYS 1303. Stars and Galaxies. (3-0-3). L.

Study of stars, galaxies, and the universe outside our solar system.

Prerequisites:

- College readiness in reading and math required.

Corequisites:

- PHYS 1103 (Stars and Galaxies)

PHYS 1304. Solar System. (3-0-3). L.

Study of the sun and its solar system, including its origin.

Prerequisites:

- College readiness in reading and math required.

Corequisites:

- PHYS 1104 (Solar System (lab))

PHYS 1315. Physical Science I. (3-0-3). L.

Course designed for non-science majors that surveys topics from physics, chemistry, geology, astronomy, and meteorology.

Prerequisites:

- College readiness in reading and math required.

Corequisites:

- PHYS 1115 (Physical Science Laboratory I)

PHYS 2125. University Physics Laboratory I. (0-3-1). L.

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.

Corequisites:

- PHYS 2325 (University Physics I)

PHYS 2126. University Physics Laboratory II. (0-3-1). L.

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.

Corequisites:

- PHYS 2326 (University Physics II)

PHYS 2325. University Physics I. (3-0-3). L.

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.

Prerequisites:

- MATH 2413 - Calculus I, or MATH 2313

Corequisites:

- PHYS 2125 (University Physics Laboratory I)

PHYS 2326. University Physics II. (3-0-3). L.

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.

Prerequisites:

- MATH 2414 (Calculus II)
- PHYS 2325 (University Physics I)

Corequisites:

- PHYS 2126 (University Physics Laboratory II)

PLAB - Phlebotomy (WECM)

PLAB 1023. Phlebotomy. (96). L.

Skill development in the performance of a variety of blood collection methods using proper techniques and standard 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, patient identification, specimen labeling, quality assurance, specimen handling, processing, accessioning, professionalism, ethics, and medical terminology.

PLAB 1060. Clinical Phlebotomy/Phlebotomist. (48). L.

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.

PLAB 1160. Clinical Phlebotomy. (0-4-1). L.

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.

Restrictions:

- Acceptable scores in college readiness exam, pre-entrance health exam, documentation of required immunizations, pass drug screen, pass a criminal background check, documentation of CPR for Healthcare Providers from American Heart Association.
- Concurrent enrollment with PLAB 1223 is required. Program director and clinical instructor authorization is needed to register for the phlebotomy clinical course without PLAB 1223

PLAB 1161. Clinical Phlebotomy. (0-4-1). L.

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.

Restrictions:

- Concurrent enrollment or previous completion of PLAB1223 and PLAB1160 are required.

PLAB 1223. Phlebotomy. (1-4-2). L.

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.

Corequisites:

- PLAB 1160 (Clinical Phlebotomy)

Restrictions:

- A grade of “C” or better is required for graduation.

PMHS - Mental Health Services

PHMS 1009. Psychiatric Technician 1. (80). L.

Instruction and skill development for the provision of basic care to mental health clients. Topics will include mental disorders, universal precautions, vital signs, observation and charting patient behavior, preventative management of aggressive behavior, patient rights, confidentiality, hygiene and communication.

PMHS 1005. Mental Health Technician. (48). L.

This course is designed to prepare the student to enter the field of the mental health services as an entry level technician. Topics covered will be the philosophy, goals and organizational practices of mental health services in Texas; client rights; behavior identification; personal safety; prevention of abuse and neglect and more.

POFI - Office Technology (WECM)

POFI 1301. Computer Applications I. (3-1-3). L.

Overview of computer office applications including current terminology and technology. Introduction to computer hardware, software applications, and procedures. This course is designed to be repeated multiple times to improve student proficiency.

POFI 1391. Special Topics: Artificial Intelligence for Administrative Use II. (2-3-3). L.

Builds on foundational AI concepts with a focus on specialized applications in business, technology, and society. Topics include AI and accessibility, robotics integration, cybersecurity and privacy concerns, AI-driven chatbots, and industry-specific uses of AI in healthcare, supply chain management, and entrepreneurship. Students will explore practical case studies and evaluate how AI transforms business processes while considering responsible implementation strategies.

Course Outcomes: Upon completion of this course, students will be able to:

1. Evaluate the role of AI in improving accessibility andinclusivity.
2. Explain how robotics and AI intersect in workplace applications.
3. Assess cybersecurity and privacy challenges associated with AI use.
4. Design and test chatbot interactions for customer service and business use.
5. Analyze AI's impact on business functions such as healthcare, supply chain, and entrepreneurship.
6. Recommend ethical and effective strategies for integrating AI into organizational settings.

POFI 2301. Word Processing. (2-3-3). L.

Word processing software focusing on business applications. This course is designed to be repeated multiple times to improve student proficiency.

POFM - Medical Administrative Assistant (WECM)

POFM 1000. Basic Medical Coding. (128). L.

Presentation and application of basic coding rules, principles, guidelines, and conventions utilizing various coding systems.

POFM 1317. Medical Administrative Support. (3-1-3). L.

Instruction in medical office procedures including appointment scheduling, medical records creation and maintenance, telephone communications, coding, billing, collecting, and third-party reimbursements.

POFT - Administrative Assistance (WECM)

POFT 1120. Job Search Skills. (1-0-1). L.

Skills to seek and obtain employment in business and industry.

POFT 1301. Business English. (3-1-3). L.

Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business.

POFT 1313. Professional Workforce Preparation. (3-0-3). L.

Preparation for career success including ethics, interpersonal relations, professional attire, and advancement.

POFT 1391. Special Topics: Artificial Intelligence for Administrative Use I. (2-3-3). L.

Introduces artificial intelligence (AI) concepts, history, and applications in professional and personal contexts. Topics include identifying AI platforms and their functions, natural language processing, prompt engineering, AI applications in productivity and communication, AI-generated art and images, and ethical considerations in AI use. Emphasis is placed on developing foundational skills to recognize and apply AI tools responsibly in academic, workplace, and entrepreneurial settings.

Course Outcomes: Upon completion of this course, students will be able to:

1. Describe the history, evolution, and current landscape of artificial intelligence.
2. Identify common AI platforms, tools, and applications.
3. Define natural language processing and demonstrate its role in AI systems.
4. Apply prompt engineering techniques to interact effectively with AI tools.
5. Generate and evaluate AI-created text, images, and other media.
6. Analyze ethical issues and societal impacts of AI adoption.

POFT 2303. Speed and Accuracy Building. (3-1-3). L.

Review, correct, and improve keyboarding techniques for the purpose of Increasing speed and improving accuracy. This course is designed to be repeated multiple times to improve student proficiency.

POFT 2312. Business Correspondence & Communication. (3-1-3). L.

(Spring Only) Development of writing and presentation skills to produce effective business communications.

POFT 2331. Administrative Project Solutions. (3-1-3). L.

(SPRING ONLY). Advanced concepts of project management and office procedures integrating software applications, critical thinking, and problem-solving skills.

TRVM 2301. Introduction to Convention/Meeting Management. (3-0-3). L.

Overview of the meetings and conventions industry and the various aspects and skills involved in planning and managing meetings, conventions, and expositions.. Emphasis on types of meetings, meeting markets, industry suppliers, budget andprogram planning, site selection and contract negotiations, registration and housing, food and beverage requirements, functions and meeting room setup, and audiovisual requirements.

PSTR - Baking and Pastry Arts (WECM)

PSTR 1301. Fundamentals of Baking. (2-3-3). L.

Fundamentals of baking including dough, quick breads, pies, cakes, cookies, and tarts. 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.

Prerequisites:

- CHEF 1305 (Sanitation and Safety)
- PSTR 1301 (Fundamentals of Baking)

PSTR 1305. Breads and Rolls. (2-3-3). L.

Concentration on fundamentals of chemically and yeast raised breads and rolls. Instruction on commercial preparation of a wide variety of products.

Prerequisites:

- PSTR 1301 (Fundamentals of Baking)
- PSTR 2331 (Advanced Pastry Shop)

PSTR 1306. Cake Decoration 1. (2-3-3). L.

Introduction to skills, concepts and techniques of cake decorating.

Prerequisites:

- PSTR 1301 (Fundamentals of Baking)
- PSTR 2331 (Advanced Pastry Shop)

PSTR 1340. Plated Desserts. (2-3-3). L.

Preparation and service of hot and cold desserts with a focus on individual desserts, a la minute preparations, and numerous components within one preparation. Emphasis on station organization, timing, and service coordination for restaurant dessert production.

Prerequisites:

- PSTR 1301 (Fundamentals of Baking)
- PSTR 2331 (Advanced Pastry Shop)

PSTR 1343. Bakery Operations and Management. (3-1-3). L.

Introduction to management, marketing, supervision, and sanitation principles required in retail bakery operations. Emphasis on cost control, pricing, computer usage, and personnel issues.

Prerequisites:

- PSTR 1301 (Fundamentals of Baking)
- PSTR 2331 (Advanced Pastry Shop)

PSTR 2331. Advanced Pastry Shop. (2-3-3). L.

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.

PSYC - Psychology

PSYC 1300. Learning Frameworks. (3-0-3). L.

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. (RW)

Restrictions:

- Only one of the cross-listed courses can be taken for credit.

PSYC 2301. General Psychology. (3-0-3). L.

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes. (RW)

PSYC 2306. Human Sexuality. (3-0-3). L.

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. (RW)

Restrictions:

- Only one of the cross-listed courses can be taken for credit.

PSYC 2314. Lifespan, Growth & Development.. (3-0-3). L.

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. (RW)

PSYC 2315. Psychology of Adjustment. (3-0-3). L.

Study of the processes involved in adjustment of individuals to their personal and social environments. (R,W)

Prerequisites:

- PSYC 2301 (General Psychology)

PSYC 2317. Statistical Methods in Psychology. (3-0-3). L.

This course covers descriptive and inferential statistics used in psychological research and assessment. It includes measurement, characteristics of distributions; measures of central tendency and variability; transformed scores; correlation and regression; probability theory; and hypotheses testing and inference. (PSYC 2320 is included in the Psychology Field of Study.) (RW)

Prerequisites:

- PSYC 2301 (General Psychology)
- MATH 1314 (College Algebra)

PSYC 2319. Social Psychology. (3-0-3). L.

Study of individual behavior within the social environment. May include topics such as the socio-psychological process, attitude formation and change, interpersonal relations, group processes, self, social cognition, and research methods. Cross-listed as SOCI 2326. (R,W)

Prerequisites:

- PSYC 2301 (General Psychology)

Restrictions:

- Only one of the cross-listed courses can be taken for credit.

PSYC 2320. Abnormal Psychology. (3-0-3). L.

This course provides an introduction to the psychological, biological, and socio-cultural factors involved in the development, diagnosis, and treatment of psychological disorders. It includes a review of the historical understanding of abnormal behavior and the development of modern diagnostic systems. It includes discussion of psychological research and practice as it relates to mental health and psychological functioning, as well as legal and ethical issues. (R,W)

Prerequisites:

- PSYC 2301 (General Psychology)

PSYC 2330. Biological Psychology. (3-0-3). L.

An introduction to the biological bases of behavior. Topics include evolution, genetics, research methods in behavioral neuroscience, motivation and emotion, sensation and perception, learning and memory, lifespan development, cognition, psychological disorders, and other complex behaviors. (R,W)

Prerequisites:

- PSYC 2301 (General Psychology)

PTAC - Chemical Technology (WECM)

PTAC 1046. Process Troubleshooting. (96). L.

Instruction in the different types of troubleshooting techniques, procedures, and methods used to solve process problems.

PTAC 1332. Process Instrumentation I. (2-4-3). L.

Study of basic principles of industrial sensors for automated systems. Emphasis on the operation and application of sensors, such as position, rate, proximity, opto-electronics, ranging, and pressure switches.

PTAC 1408. Safety, Health and Environment. (2-4-4). L.

An overview of safety, health, and environmental issues in the performance of all job tasks in process industries.

PTAC 2346. Process Troubleshooting. (2-4-3). L.

Instruction in the different types of troubleshooting techniques, procedures, and methods used to solve process problems.

QCTC - Quality Control Technology (WECM)

QCTC 1343. Quality Assurance. (3-1-3). L.

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.

RADR - Radiologic Technology (WECM)

RADR 1309. Introduction to Radiography and Patient Care. (3-0-3). L.

An overview of the historical development of radiography, basic radiation protection, an introduction to medical terminology, ethical and legal issues for healthcare professionals, and an orientation to the profession and to the health care system. Patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology are also included.

Corequisites:

- RADR 1311 (Basic Radiographic Procedures)
- RADR 1313 (Principles of Radiographic Imaging I.)

Restrictions:

- General Core Curriculum Course is also Corequisite
- Acceptable scores in college readiness exam and Program Entrance Exam, completion of the required minimum 11 hours of academic prerequisite courses, attendance at a program information meeting; pre-entrance health exam, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Healthcare Providers from American Heart Association.

RADR 1311. Basic Radiographic Procedures. (2-3-3). L.

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.

Corequisites:

- RADR 1309 (Introduction to Radiography and Patient Care)
- RADR 1313 (Principles of Radiographic Imaging I.)

Restrictions:

- General Core Curriculum Course is also corequisite
- Acceptable scores in college readiness exam and Program Entrance Exam, completion of the required 11 hours of academic prerequisite courses, attendance at a program information meeting; pre-entrance health exam, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Healthcare Providers from American Heart Association.

RADR 1313. Principles of Radiographic Imaging I.. (2-2-3). L.

An introduction to radiographic image qualities and the effects of exposure variables upon these qualities.

Corequisites:

- RADR 1309 (Introduction to Radiography and Patient Care)
- RADR 1311 (Basic Radiographic Procedures)

Restrictions:

- General Core Curriculum Course is also Corequisite
- Acceptable scores in college readiness exam and Program Entrance Exam, completion of the required minimum 11 hours of academic prerequisite courses, attendance at a program information meeting; pre-entrance health exam, documentation of required immunizations, pass drug screen, pass criminal background check, documentation of CPR for Healthcare Providers from American Heart Association.

RADR 1361. Clinical I. (0-16-3). L.

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.

Corequisites:

- RADR 2301 (Intermediate Radiographic Procedures)
- RADR 2305 (Principles of Radiographic Imaging II)
- RADR 2313 (Radiation Biology and Protection)

Restrictions:

- Completion of RADR 1309, 1311, and 1313 with a C or better

RADR 1362. Clinical II. (0-24-3). L.

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.

Restrictions:

- Must be taken in sequence as listed in degree plan.
- Completion of RADR 1361, 2305, 2313, and 2301 with a C or better

RADR 1391. Special Topics in Medical Radiologic Technology. (3-0-3). L.

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Corequisites:

- RADR 2333 (Advanced Medical Imaging)
- RADR 2335 (Radiologic Technology Seminar)
- RADR 2367 (Practicum)

Restrictions:

- Completion of RADR 2363, 2309, 2331, and general core curriculum course (if applicable) with a C or better

RADR 2217. Radiographic Pathology. (1-0-1). L.

A presentation of the disease process and common diseases and their appearance on medical images.

Corequisites:

- RADR 1362 (Clinical II)

Restrictions:

- Completion of RADR 1361, 2305, 2313, and 2301 with a C or better

RADR 2301. Intermediate Radiographic Procedures. (2-3-3). L.

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.

Corequisites:

- RADR 1361 (Clinical I)
- RADR 2305 (Principles of Radiographic Imaging II)
- RADR 2313 (Radiation Biology and Protection)

Restrictions:

- Completion of RADR 1309, 1311, 1313 with a C or better

RADR 2305. Principles of Radiographic Imaging II. (3-0-3). L.

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.

Corequisites:

- RADR 1361 (Clinical I)
- RADR 2301 (Intermediate Radiographic Procedures)
- RADR 2313 (Radiation Biology and Protection)

Restrictions:

- Completion of RADR 1309, 1311, 1313 with a C or better

RADR 2309. Radiographic Imaging Equipment. (3-0-3). L.

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.

Corequisites:

- RADR 2331 (Advanced Radiographic Procedures)
- RADR 2363 (Clinical III)

Restrictions:

- General Core Curriculum Course is Corequisite
- Completion of RADR 1362 and 2217 with a C or better

RADR 2313. Radiation Biology and Protection. (3-0-3). L.

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.

Corequisites:

- RADR 1361 (Clinical I)
- RADR 2301 (Intermediate Radiographic Procedures)
- RADR 2305 (Principles of Radiographic Imaging II)

Restrictions:

- Completion of RADR 1309, 1311, 1313 with a C or better

RADR 2331. Advanced Radiographic Procedures. (2-4-3). L.

Continuation of positioning; alignment of the anatomical structure and equipment, evaluation of images for proper demonstration of anatomy and related pathology. Lab included.

Corequisites:

- RADR 2309 (Radiographic Imaging Equipment)
- RADR 2363 (Clinical III)

Restrictions:

- General Core Curriculum Course is also corequisite
- Completion of RADR 1362 and 2217 with a C or better

RADR 2333. Advanced Medical Imaging. (3-0-3). L.

An exploration of specialized imaging modalities.

Corequisites:

- RADR 1391, RADR 2331, RADR 2335, RADR 2367

Restrictions:

- Completion of RADR 2363, 2309, 2331, and general core curriculum course (if applicable) with a C or better

RADR 2335. Radiologic Technology Seminar. (3-0-3). L.

A capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning.

Corequisites:

- RADR 1391 (Special Topics in Medical Radiologic Technology)
- RADR 2333 (Advanced Medical Imaging)
- RADR 2367 (Practicum)

Restrictions:

- Completion of RADR 2363, 2309, 2331, and general core curriculum course (if applicable) with a C or better

RADR 2340. Sectional Anatomy for Medical Imaging. (3-0-3). L.

Differentiate the various planar orientations used in medical imaging; and identify sectional anatomic structures viewed on medical images

RADR 2363. Clinical III. (0-24-3). L.

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.

Corequisites:

- RADR 2309 (Radiographic Imaging Equipment)
- RADR 2331 (Advanced Radiographic Procedures)

Restrictions:

- General Core Curriculum Course is also corequisite
- Completion of RADR 1362 and 2217 with a C or better

RADR 2367. Practicum. (0-24-3). L.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Corequisites:

- RADR 1391 (Special Topics in Medical Radiologic Technology)
- RADR 2333 (Advanced Medical Imaging)
- RADR 2335 (Radiologic Technology Seminar)

Restrictions:

- Completion of RADR 2363, 2309, 2331, and general core curriculum course (if applicable) with a C or better

RBTC - Robotics (WECM)

RBTC 1043. Robotics. (64). L.

Principles and applications of robots. Includes installation, interfacing, programming, maintenance, and safety of robots and robotic cells.

RBTC 1343. Robotics. (2-2-3). L.

Principles and applications of robots. Includes installation, interfacing, programming, maintenance, and safety of robots and robotic cells.

RBTC 1355. Sensors. (2-4-3). L.

Study of basic principles of industrial sensors for automated systems. Emphasis on the operation and application of sensors, such as position, rate, proximity, opto-electronics, ranging, and pressure switches.

RNSG - Nursing

RNSG 1105. Nursing Skills I. (0-2-1). L.

Study of the concepts and principles necessary to perform basic 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. This course lends itself to a blocked approach.

RNSG 1119. Integrated Nursing Skills (Nursing 1). (0-3-1). P.

Study of the concepts and principles necessary to perform basic nursing skills for individualized care of 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.

Corequisites:

- RNSG 1360 (Clinical (Nursing 1))
- RNSG 1423 (Introduction to Professional Nursing for Integrated Programs (Nursing 1))

Restrictions:

- Acceptance into program is required for enrollment
- A grade of “PASS” is required to progress to Nursing 2 courses.

RNSG 1129. Integrated Nursing Skills 2. (0-3-1). P.

Study of the concepts and principles necessary to perform intermediate nursing skills for care of patients across the lifespan. Content includes knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to an integrated approach.

Prerequisites:

- RNSG 1119 (Integrated Nursing Skills (Nursing 1))
- RNSG 1360 (Clinical (Nursing 1))
- RNSG 1423 (Introduction to Professional Nursing for Integrated Programs (Nursing 1))

Corequisites:

- RNSG 1461 (Clinical (Nursing 2))
- RNSG 2404 (Integrated Care of the Patient with Common Health Care Needs (Nursing 2))

Restrictions:

- A grade of “PASS” is required to progress to Nursing 3 courses.
- Must be taken in sequence as listed in degree plan.

RNSG 1140. Professional Nursing Skills for Articulating Students. (0-2-1). L.

Bridge Program Only. Demonstration of professional nursing skills and procedures; and utilize clinical reasoning processes and clinical judgment. Content includes knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to either a blocked or integrated approach.

RNSG 1151. Care of the Childbearing Family. (1-0-1). L.

Study of concepts related to the provision of nursing care for childbearing families. Content includes knowledge judgment, skills, and professional values within a legal/ethical framework. This course lends itself to a blocked approach.

RNSG 1160. Clinical Registered Nursing I. (0-6-1). L.

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.

RNSG 1162. Clinical Registered Nursing I - Articulating Students. (0-6-1). L.

Bridge Program Only. 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.

RNSG 1260. Clinical Registered Nursing II. (0-6-2). L.

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.

RNSG 1261. Clinical Registered Nursing III. (0-8-2). L.

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.

RNSG 1262. Clinical Registered Nursing IV. (0-8-2). L.

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.

RNSG 1341. Common Concepts of Adult Health. (3-0-3). L.

Basic integration of the role of the professional nurse as a provider of patient-centered care, patient safety advocate, member of the health care team, and member of the profession. Study of the common concepts of caring for adult patients and families with medical-surgical health care needs related to body systems, emphasizing knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to a blocked approach.

RNSG 1343. Complex Concepts of Adult Health. (3-0-3). L.

Integration of previous knowledge and skills related to common adult health needs into the continued development of the professional nurse as a provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession in the care of adult patients and families with complex medical-surgical health care needs associated with body systems. Emphasis on complex knowledge, judgments, skills, and professional values within a legal/ethical framework. This course lends itself to a blocked approach.

RNSG 1360. Clinical (Nursing 1). (0-12-3). P.

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.

Corequisites:

- RNSG 1119 (Integrated Nursing Skills (Nursing 1))
- RNSG 1423 (Introduction to Professional Nursing for Integrated Programs (Nursing 1))

Restrictions:

- Acceptance into the program is required for enrollment
- A grade “PASS” is required to progress to Nursing 2 courses.
- Must be taken in sequence as listed in degree plan.

RNSG 1413. Health Assessment. (2-1-2). L.

Development of skills and techniques required for a comprehensive nursing health assessment within a legal/ethical framework. This course lends itself to a blocked approach.

RNSG 1413. Foundations for Nursing Practice. (4-0-4). L.

Introduction to the role of the professional nurse as provider of patient-centered care, patient safety advocate, member of the health care team, and member of the profession. Content includes fundamental concepts of nursing practice, history of professional nursing, clinical reasoning processes and clinical judgment. Emphasis on knowledge, judgment, skills and professional values within a legal/ethical framework. This course lends itself to a blocked approach.

RNSG 1417. Concepts of Professional Nursing Practice I for Articulating Students. (4-0-4). L.

Bridge Program Only. Provides the articulating student the opportunity to examine the role of the professional nurse; application of clinical reasoning processes and clinical judgment related to patient care; and competency in knowledge, judgment, skill, and professional values within a legal/ethical framework. This course lends itself to either a blocked or integrated approach.

RNSG 1423. Introduction to Professional Nursing for Integrated Programs (Nursing 1). (4-0-4). L.

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 clinical reasoning process and clinical judgment 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.

Corequisites:

- RNSG 1119 (Integrated Nursing Skills (Nursing 1))
- RNSG 1360 (Clinical (Nursing 1))

Restrictions:

- Acceptance into the program is required for enrollment
- 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). (0-12-4). P.

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.

Prerequisites:

- RNSG 1119 (Integrated Nursing Skills (Nursing 1))
- RNSG 1360 (Clinical (Nursing 1))
- RNSG 1423 (Introduction to Professional Nursing for Integrated Programs (Nursing 1))

Corequisites:

- RNSG 1129 (Integrated Nursing Skills 2)
- RNSG 2404 (Integrated Care of the Patient with Common Health Care Needs (Nursing 2))

Restrictions:

- A grade of “PASS” is required to progress to Nursing 3 courses.
- Must be taken in sequence as listed in degree plan.

RNSG 2101. Care of Children and Families. (1-0-1). L.

Study of concepts related to the provision of nursing care for children and their families, emphasizing judgment, and professional values within a legal/ethical framework. This course lends itself to a blocked approach.

RNSG 2130. Professional Nursing Review and Licensure Preparation. (1-0-1). L.

Review of concepts required for licensure examination and entryinto the practice of professional nursing. Includes review of application process of National Council Licensure Examination for Registered Nurses (NCLEX-RN) test plan, assessment of knowledge deficits, and remediation. This course lends itself to either a blocked or integrated approach.

RNSG 2213. Mental Health Nursing. (2-0-2). L.

Principles and concepts of mental health, psychopathology, and treatment modalities related to the nursing care of patients and their families. This course lends itself to a blocked approach.

RNSG 2231. Advanced Concepts of Adult Health. (2-0-2). L.

Application of advanced concepts and skills for the development of the professional nurse's roles in caring for adult patients and families. Emphasis on advanced knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to a blocked approach.

RNSG 2260. Clinical Registered Nursing Women’s Health and Pediatrics. (0-6-2). L.

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.

RNSG 2261. Clinical Registered Nursing - Mental Health. (0-6-2). L.

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.

RNSG 2262. Clinical Registered Nursing V - Role Transition. (0-6-2). L.

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.

RNSG 2404. Integrated Care of the Patient with Common Health Care Needs (Nursing 2). (4-0-4). L.

Application of clinical reasoning process and clinical judgment 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.

Prerequisites:

- RNSG 1119 (Integrated Nursing Skills (Nursing 1))
- RNSG 1360 (Clinical (Nursing 1))
- RNSG 1423 (Introduction to Professional Nursing for Integrated Programs (Nursing 1))

Corequisites:

- RNSG 1129 (Integrated Nursing Skills 2)
- RNSG 1461 (Clinical (Nursing 2))

Restrictions:

- 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). (4-0-4). L.

Application of clinical reasoning process and clinical judgment 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, complex 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.

Prerequisites:

- RNSG 1119, RNSG 1360, RNSG 1423, RNSG 1129, RNSG 1461, RNSG 2404

Corequisites:

- RNSG 2462 (Clinical (Nursing 3))

Restrictions:

- 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 Patient Care Management (Nursing 4). (4-0-4). L.

Application of independent nursing interventions to care for patients and families throughout the lifespan whose healthcare needs may be difficult to predict. Emphasis on collaborative clinical reasoning, nursing leadership skills, and patient management. Content includes the significance of professional development, trends in nursing and healthcare, and applicable knowledge, judgment, skills, and professional values within a legal/ethical framework.

Prerequisites:

- RNSG 1119, RNSG 1360, RNSG 1423, RNSG 1129, RNSG 1461, RNSG 2404, RNSG 2414, RNSG 2462

Corequisites:

- RNSG 2463 (Clinical (Nursing 4))

Restrictions:

- A grade of “C” or better is required.
- Must be taken in sequence as listed in degree plan.

RNSG 2462. Clinical (Nursing 3). (0-15-4). P.

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.

Prerequisites:

- RNSG 1119, RNSG 1360, RNSG 1423, RNSG 1129, RNSG 1461, RNSG 2404

Corequisites:

- RNSG 2414 (Integrated Care of the Patient with Complex Health Care Needs (Nursing 3))

Restrictions:

- A grade of “PASS” is required to progress to Nursing 4 courses.
- Must be taken in sequence as listed in degree plan.

RNSG 2463. Clinical (Nursing 4). (0-15-4). L.

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.

Prerequisites:

- RNSG 1119, RNSG 1360, RNSG 1423, RNSG 1129, RNSG 1461, RNSG 2404, RNSG 2414, RNSG 2462

Corequisites:

- RNSG 2435 (Integrated Patient Care Management (Nursing 4))

Restrictions:

- A Grade of "PASS" is required
- Must be taken in sequence as listed in degree plan.

RSTO - Restaurant, Culinary, and Catering Management (WECM)

RSTO 1304. Dining Room Service. (1-5-3). L.

Introduces the principles, concepts, and systems of professional table service. Topics include dining room organization, scheduling, and management of food service personnel.

Prerequisites:

- CHEF 1305 (Sanitation and Safety)

RSTO 1313. Hospitality Supervision. (3-0-3). L.

Fundamentals of recruiting, selection, and training of food service and hospitality personnel. Topics include job descriptions, schedules, work improvement, motivation, applicable personnel laws and regulations. Emphasis on leadership development.

RSTO 2301. Principles of Food and Beverage Controls. (3-0-3). L.

A study of financial principles and controls of food service operation including review of operation policies and procedures. Topics include financial budgeting and cost analysis emphasizing food and beverage labor costs, operational analysis, and international and regulatory reporting procedures.

SCIT - Science (WECM)

SCIT 1305. Intro to Ag Chemistry. (2-2-3). L.

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.

SMFT - Semiconductor Manufacturing Technology (WECM)

SMFT 1071. Vacuum Technology. (64). L.

Skill development in vacuum technology, including vacuum principles, pumping systems, gauging, leak detection, and safety principles.

SMFT 1071. Semiconductor Manufacturing Technology. (64). L.

A study of the processes, materials, and equipment used in the manufacturing of semiconductors, including an overview of the semiconductor industry, related terminology, and standard safety practice.

SMFT 1343. Semiconductor Manufacturing Technology. (3-1-3). L.

A study of the processes, materials, and equipment used in the manufacturing of semiconductors, including an overview of the semiconductor industry, related terminology, and standard safety practice.

SMFT 2335. Vacuum Technology. (3-1-3). L.

Skill development in vacuum technology, including vacuum principles, pumping systems, gauging, leak detection, and safety principles.

SOCI - Sociology

SOCI 1301. Introduction to Sociology. (3-0-3). L.

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. (R,W)

SOCI 1306. Social Problems. (3-0-3). L.

Application of sociological principles to the major problems of contemporary society such as inequality, crime and violence, substance abuse, deviance, or family problems. (R,W)

SOCI 2301. Marriage & the Family. (3-0-3). L.

Sociological and theoretical analysis of the structures and functions of the family, the varied cultural patterns of the American family, and the relationships that exist among the individuals within the family, as well as the relationships that exist between the family and other institutions in society. (R,W)

Prerequisites:

- SOCI 1301 (Introduction to Sociology)

Restrictions:

- SOCI 1301 or consent of instructor

SOCI 2306. Human Sexuality. (3-0-3). L.

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. (R,W)

Prerequisites:

- SOCI 1301 (Introduction to Sociology)

Restrictions:

- SOCI 1301 or consent of instructor
- Cross-listed as PSYC 2306. Only one of the cross-listed courses can be taken for credit

SOCI 2319. Minority Studies I. (3-0-3). L.

This course studies minority-majority group relations, addressing their historical, cultural, social, economic, and institutional development in the United States. Both sociological and social psychological levels of analysis will be employed to discuss issues including experiences of minority groups within the context of their cultural heritage and tradition, as well as that of the dominant culture. Core concepts to be examined include (but are not limited to) social inequality, dominance/subordination, prejudice, and discrimination. Particular minority groups discussed may include those based on poverty, race/ethnicity, gender, sexual orientation, age, disability, or religion. (R,W)

Prerequisites:

- SOCI 1301 (Introduction to Sociology)

Restrictions:

- SOCI 1301 or consent of instructor

SOCI 2326. Social Psychology. (3-0-3). L.

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. (R,W)

Prerequisites:

- SOCI 1301 (Introduction to Sociology)

Restrictions:

- SOCI 1301 or consent of instructor
- Cross-listed as PSYC 2319. Only one of the cross-listed courses can be taken for credit

SOCI 2336. Criminology. (3-0-3). L.

The course surveys various theories of crime, with an emphasis on understanding the social causes of criminal behavior. The techniques for measuring crime as a social phenomenon and the characteristics of criminals are examined. This course addresses crime types (such as consensual or white-collar crimes), the criminal justice system, and other social responses to crime. (R,W)

SOCI 2340. Drug Use and Abuse. (3-0-3). L.

Study of the use and abuse of drugs in today's society. Emphasizes the physiological, sociological, and psychological factors. (R,W)

SOCW - Social Work

SOCW 2361. Introduction to Social Work. (3-0-3). L.

An overview of the history and development of social work as a profession. The course is designed to foster a philosophical, historical, and critical understanding of the social work profession, including social work values, ethics, and areas of practice utilized under a Generalist Intervention Model.

SOCW 2389. Academic Cooperative. (2-3-3). L.

A supervised experiential learning course designed to integrate program study with introductory exposure to the field of social work. In conjunction with individual study and/or seminars, the student will set specific goals and objectives in the study of social work and/or social institutions. The academic cooperative is not a social work skills-based practice experience, but instead, an observational volunteer experience. The course must include a minimum of 80 contact hours (48 hours in a social service setting).

SOCW-2362. Social Welfare: Legislation, Programs, and Services. (3-0-3). L.

This course offers a historical and contemporary examination of legislation and resulting programs, policies, and services in the context of the social welfare system in the United States. Special attention is given to the political, economic, environmental, and social conditions that prompted the development of legislation to meet the needs of vulnerable populations. Societal responses to legislation are also considered.

SPAN - Spanish Language

SPAN 1300. Beginning Spanish Conversation I. (3-0-3). L.

Basic practice in comprehension and production of the spoken language.

SPAN 1411. Beginning Spanish I. (3-2-4). L.

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.

SPAN 1412. Beginning Spanish II. (3-2-4). L.

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.

Prerequisites:

- SPAN 1411 (Beginning Spanish I)

SPAN 2311. Intermediate Spanish I. (3-0-3). L.

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. (R)

Prerequisites:

- SPAN 1412 (Beginning Spanish II)

SPAN 2312. Intermediate Spanish II. (3-0-3). L.

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. (R)

Prerequisites:

- SPAN 2311 (Intermediate Spanish I)

SPAN 2389. Academic Cooperative. (3-0-3). L.

An instructional program designed to integrate on-campus study with practical hands-on work experience in the physical sciences. In conjunction with class seminars, the individual students will set specific goals and objectives in the scientific study of inanimate objects, processes of matter and energy, and associated phenomena. (R)

Prerequisites:

- SPAN 1412 (Beginning Spanish II)

SPCH - Speech

SPCH 1311. Introduction to Speech Communication. (3-0-3). L.

Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking. (R W)

SPCH 1315. Public Speaking. (3-0-3). L.

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)

SPCH 1318. Interpersonal Communication. (3-0-3). L.

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.

SPCH 1321. Business & Professional Communication. (3-0-3). L.

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)

SPCH 2335. Argumentation and Debate. (3-0-3). L.

Theories and practice in argumentation and debate including analysis, reasoning, organization, evidence, and refutation.

SRGT - Surgical Technology

SRGT 1361. Clinical-Surgical Technology/Technologist. (0-9-3). L.

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.

SRGT 1405. Intro to Surgical Technology. (4-0-4). L.

Orientation to surgical technology theory, surgical pharmacology and anesthesia, technology sciences, and patient care concepts.

SRGT 1409. Fundamentals of Perioperative Concepts and Techniques. (4-0-4). L.

In depth coverage of perioperative concepts such as aseptic principles and practice, infectious processes, wound healing, and creating and maintaining the sterile field.

SRGT 1441. Surgical Procedures I. (4-0-4). L.

Introduction to surgical pathology and its relationship to surgical procedures related to the general, OB/GYN, genitourinary, otorhinolaryngology, and orthopedic surgical specialties incorporating instruments, equipment, and supplies for safe patient care.

SRGT 1442. Surgical Procedures II. (4-0-4). L.

Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the cardiothoracic, peripheral vascular, plastic/reconstructive, ophthalmology, oral/maxillofacial, and neurological surgical specialties incorporating instruments, equipment, and supplies required for safe patient care.

SRGT 1660. Clinical - Surgical Technology/Technologist. (0-0-6). L.

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.

SRGT 2230. Professional Readiness. (2-2-2). L.

Overview of professional readiness for employment, attaining certification, and maintaining certification status.

SRGT 2360. Clinical-Surgical Technology/Technologist. (0-9-3). L.

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.

TECA - Early Childhood Education

TECA 1303. Families, Schools and Community. (3-1-3). L.

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.

TECA 1311. Educating Young Children. (3-1-3). L.

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 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 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.

TECA 1318. Wellness of the Young Child. (3-1-3). L.

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.

TECA 1354. Child Growth & Development. (3-0-3). L.

A study of the physical, emotional, social, language, and cognitive factors impacting growth and development of children through adolescence.

TECM - Applied Mathematics (WECM)

TECM 1003. Technical Calculations. (80). L.

Specific mathematical calculations required by business, industry, and health occupations.

TECM 1403. Technical Calculations. (4-1-4). L.

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).

TRVM - Travel and Tourism (WECM)

TRVM 2301. Introduction to Convention/Meeting Management. (3-0-3). L.

Overview of the meetings and conventions industry and the various aspects and skills involved in planning and managing meetings, conventions, and expositions.. Emphasis on types of meetings, meeting markets, industry suppliers, budget and program planning, site selection and contract negotiations, registration and housing, food and beverage requirements, functions and meeting room setup, and audiovisual requirements.

VNSG - Vocational Nurse Training (WECM)

VNSG 1162. Clinical-LVN Training II. (0-3-1). P.

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.

Prerequisites:

- BIOL 2404, VNSG 1226, VNSG 1230, VNSG 1238, VNSG 1304, VNSG 1360, VNSG 1361, VNSG 1502, VNSG 1509

Corequisites:

- VNSG 1219 (Leadership and Professional Development)

VNSG 1219. Leadership and Professional Development. (2-0-2). L.

Study of the importance of professional growth. Topics include the role of the Licensed Vocational Nurse in the multi-disciplinary healthcare team, professional organizations, and continuing education.

Prerequisites:

- BIOL 2404, VNSG 1226, VNSG 1230, VNSG 1238, VNSG 1304, VNSG 1360, VNSG 1361, VNSG 1502, VNSG 1509

Corequisites:

- VNSG 1162 (Clinical-LVN Training II)

VNSG 1226. Gerontology. (2-0-2). L.

Overview of the normal physical, psychosocial, and cultural aspects of the aging process. Addresses common disease processes of aging. Exploration of perceptions toward care of the older adult.

Prerequisites:

- BIOL 2404 (Anatomy & Physiology)

Corequisites:

- VNSG 1304, VNSG 1360, VNSG 1502

Restrictions:

- Must be accepted into the program for enrollment in the course

VNSG 1230. Maternal-Neonatal Nursing. (2-0-2). L.

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 and clinical judgement model 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.

Prerequisites:

- BIOL 2404, VNSG 1226, VNSG 1304, VNSG 1360, VNSG 1502

Corequisites:

- VNSG 1238 (Mental Illness)
- VNSG 1361 (Clinical II)
- VNSG 1509 (Nursing in Health & Illness II)

VNSG 1238. Mental Illness. (2-0-2). L.

Study of human behavior with emphasis on emotional and mental abnormalities and modes of treatment incorporating the nursing process and clinical judgment model.

Prerequisites:

- BIOL 2404, VNSG 1226, VNSG 1304, VNSG 1360, VNSG 1502

Corequisites:

- VNSG 1230 (Maternal-Neonatal Nursing)
- VNSG 1361 (Clinical II)
- VNSG 1509 (Nursing in Health & Illness II)

VNSG 1262. Clinical-LVN Training IV. (0-7-2). P.

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.

Prerequisites:

- BIOL 2404, VNSG 1162, VNSG 1219, VNSG 1226, VNSG 1230, VNSG 1238, VNSG 1304, VNSG 1360, VNSG 1361, VNSG 1502, VNSG 1509

Corequisites:

- VNSG 1334 (Pediatrics)
- VNSG 2510 (Nursing in Health & Illness III)

VNSG 1304. Foundations of Nursing. (3-0-3). L.

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, patient preference, nursing process using the clinical judgment model, and holistic awareness.

Prerequisites:

- BIOL 2404 (Anatomy & Physiology)

Corequisites:

- VNSG 1226 (Gerontology)
- VNSG 1360 (Clinical - LVN Training I)
- VNSG 1502 (Applied Nursing Skills I)

Restrictions:

- Must be accepted into the program for enrollment in the course

VNSG 1334. Pediatrics. (3-0-3). L.

Study of the care of the pediatric patient and family during health and disease. Emphasis on growth and development needs utilizing the nursing process and clinical judgment model.

Prerequisites:

- BIOL 2404, VNSG 1162, VNSG 1219, VNSG 1226, VNSG 1230, VNSG 1238, VNSG 1304, VNSG 1360, VNSG 1361, VNSG 1502, VNSG 1509

Corequisites:

- VNSG 1262 (Clinical-LVN Training IV)
- VNSG 2510 (Nursing in Health & Illness III)

VNSG 1360. Clinical - LVN Training I. (0-12-3). P.

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.

Prerequisites:

- BIOL 2404 (Anatomy & Physiology)

Corequisites:

- VNSG 1226 (Gerontology)
- VNSG 1304 (Foundations of Nursing)
- VNSG 1502 (Applied Nursing Skills I)

Restrictions:

- Must be accepted into the program for enrollment in the course

VNSG 1361. Clinical II. (0-15-3). P.

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.

Prerequisites:

- BIOL 2404, VNSG 1226, VNSG 1304, VNSG 1360, VNSG 1502

Corequisites:

- VNSG 1230 (Maternal-Neonatal Nursing)
- VNSG 1238 (Mental Illness)
- VNSG 1509 (Nursing in Health & Illness II)

VNSG 1502. Applied Nursing Skills I. (4-3-5). L.

Introduction to and application of primary nursing skills. Emphasis on utilization of the nursing process and related scientific principles and the clinical judgment model.

Prerequisites:

- BIOL 2404 (Anatomy & Physiology)

Corequisites:

- VNSG 1226 (Gerontology)
- VNSG 1304 (Foundations of Nursing)
- VNSG 1360 (Clinical - LVN Training I)

Restrictions:

- Must be accepted into the program for enrollment in the course

VNSG 1509. Nursing in Health & Illness II. (5-0-5). L.

Introduction to health problems requiring medical and surgical intervention.

Prerequisites:

- BIOL 2404, VNSG 1226, VNSG 1304, VNSG 1360, VNSG 1502

Corequisites:

- VNSG 1230 (Maternal-Neonatal Nursing)
- VNSG 1238 (Mental Illness)
- VNSG 1361 (Clinical II)

VNSG 2510. Nursing in Health & Illness III. (5-0-5). L.

Continuation of Nursing in Health and Illness II. Further study of medical-surgical health problems of the patient including concepts of mental illness and the clinical judgment model. Incorporates knowledge necessary to make the transition from student to graduate vocational nurse.

Prerequisites:

- BIOL 2404, VNSG 1162, VNSG 1219, VNSG 1226, VNSG 1230, VNSG 1238, VNSG 1304, VNSG 1360, VNSG 1361, VNSG 1502, VNSG 1509

Corequisites:

- VNSG 1262 (Clinical-LVN Training IV)
- VNSG 1334 (Pediatrics)

WLDG - Welding (WECM)

WLDG 1013. Introduction to Blueprint Reading for Welders. (64). L.

A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes. Includes systems of measurement and industry standards. Also includes interpretation of plans and drawings used by industry to facilitate field application and production.

WLDG 1034. Introduction to Gas Tungsten Arc Welding (GTAW). (128). L.

Principles of gas tungsten arc welding (GTAW), including setup, GTAW equipment. Instruction in various positions and joint designs.

WLDG 1313. Blueprint Reading for Welders. (3-1-4). L.

A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes. Includes systems of measurement and industry standards. Also includes interpretation of plans and drawings used by industry to facilitate field application and production.

WLDG 1427. Welding Codes and Standards. (4-0-4). L.

An in-depth study of welding codes and their development in accordance with structural standards, welding processes, destructive and nondestructive test methods.

WLDG 1428. Introduction to Shielded Metal Arc Welding (SMAW). (2-6-4). L.

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.

WLDG 1430. Introduction to Gas Metal Arc Welding (GMAW). (2-6-4). L.

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.

WLDG 1434. Introduction to Gas Tungsten Arc (GTAW) Welding. (2-6-4). L.

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.

WLDG 1457. Intermediate Shielded Metal Arc Welding (SMAW). (2-6-4). L.

A study of the production of various fillets and groove welds. Preparation of specimens for testing in all test positions.

WLDG 2032. Welding Automation. (128). L.

Overview of automated welding and cutting applications. Special emphasis on safe use and operation of equipment.

WLDG 2050. Orbital Tube Welding. (128). L.

A course in orbital tube welding in various industries. Special emphasis on the disciplines of orbital tube welding, including cutting, facing, and development of weld procedures.

WLDG 2406. Intermediate Pipe Welding. (2-6-4). L.

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.

Prerequisites:

- WLDG 1428 (Introduction to Shielded Metal Arc Welding (SMAW))

WLDG 2447. Advanced Gas Metal Arc Welding (GMAW). (2-6-4). L.

Advanced topics in GMAW welding, including welding in various positions and directions.

Prerequisites:

- WLDG 1430 (Introduction to Gas Metal Arc Welding (GMAW))
- WLDG 1313 (Blueprint Reading for Welders)

WLDG 2451. Advanced Gas Tungsten Arc Welding (GTAW)). (2-6-4). L.

Advanced topics in GTAW welding, including welding in various positions and directions.

Prerequisites:

- WLDG 1434 (Introduction to Gas Tungsten Arc (GTAW) Welding)

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