2022-2023
GENERAL CATALOG

Board of Regents

As prescribed by state law, policy-making functions and supervisory oversight of the College are vested in a Board of Regents. Nine board members delegate professional responsibility for daily operations to the College President and a staff of administrators.

Brad Kimbrough	President
Rick Watts	Vice President
Kenneth Preston	Member
Greg Cary	Member
Joe Jarvis	Member
Jerry Conring	Member
Staci Wilks	Member
Matt Johnson	Member
Ricky J. Whatley	Secretary

Notice of Nondiscrimination

The College does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities. The following persons have been designated to handle inquiries regarding the non-discrimination policies.

Lori Grubbs, Ed.D.
Title IX Coordinator
101 College Heights
Student Life Building – Cisco Campus
Cisco, Texas 76437
254-442-5022

Leigh Dycus
Disability Services Coordinator
101 College Heights
Vo-Tech I Rm 31 – Cisco Campus
Cisco, Texas 76437
254-442-5023

Christina Mendenhall
Disability Services Coordinator
717 E. Industrial Blvd
Office 5– Abilene Educational Center
Abilene, Texas 79602
325-794-4406

Abbreviations

The catalog uses the following degree and program abbreviations:

Accounting (ACCT, ACNT)	Government (GOVT)
Agriculture (AGRI)	History (HIST)
Anthropology (ANTH)	Humanities (HUMA)
Art (ARTS)	HVAC (HART)
Athletic Training (KINE)	Industrial Technology (BMGT, CNBT, CETT, DFTG,ELPT, ENTC, HART, HYDR, IEIR, PFPB,SEST, SMER, WDWK, WLDG)
Automotive Technology (AUMT, ABDR, DEMR)	Kinesiology (KINE)
Biology (BIOL)	Mathematics (MATH)
Business (BUSI)	Management (ACNT, BMGT, BUSG, ITSC, ITSW, MRKG, HRPO)
Business Administration Management (BUSI)	Medical Assisting Technology (FMLD, HITT, MDCA, MRMT)
Business Computer Information Systems (BCIS, COSC)	Music (MUEN, MUAP, MUSI)
Business Systems Technology (ACNT, ITSW, POFI, POFT)	Nursing (RNSG, VNSG, HPRS)
Certified Nurse Aide (CNA, NURA)	Pharmacy Technician (PHRA)
Chemistry (CHEM)	Phlebotomy (PLAB)
Child Care Technology (CDEC, TECA)	Philosophy (PHIL)
Communication (COMM)	Physics (PHYS)
Computer Science (COSC)	Psychology (PSYC)
Cosmetology (CSME)	Reading (READ)
Criminal Justice (CJCR, CJLE, CJSA, CRIJ, HMSY)	Real Estate (RELE)
Developmental Education (DERW, DMAT) (DMAT) (DESS) (DESL) (DENG)	Respiratory Care Technology (RSPT)
Economics (ECON)	Sociology (SOCI)
Education (EDUC)	Spanish (SPAN)
Engineering (ENGR)	Speech (SPCH)
English (ENGL)	Surgical Technology (HPRS, SRGT)

Table of Contents

The academic year calendar is approved by the Cisco College Board of Regents and publically available at www.cisco.edu.

Cisco College offers the following semesters:

- Long semesters – the traditional academic term that ranges from 16-18 calendar weeks, depending on holidays. Long semesters are Fall, Spring, and Long Summer.
- 8-week semester – a short term approximately half the length of a long semester. 8 week semesters run concurrently with Fall and Spring semesters and are referred to as 1st 8 y (f)104a.6 (n3i()gf)10.51 .

s e m s e e i t a n p l i œrrsr ea r(d t)a-r 3 wu 1 s

Mission

The Mission of Cisco College is to provide quality, affordable, educational opportunities to meet the diverse academic, technical and career needs of the students and communities we serve.

The Mission statement of Cisco College is consistent with the Texas Education Code 130.0011, which states that the Mission of public junior colleges shall be two-year institutions primarily serving their local taxing districts and service areas in Texas and offering vocational, technical, and academic courses for certification or associate degrees, as well as continuing education, remedial and compensatory education consistent with open-admissions policies.

Core Values

Cisco College facilitates by ensuring open-door access to diverse educational opportunities, embracing innovation and best practices, and providing effective student support.

Cisco College insists on in our programs, instruction, services, management and learning environment.

M-0.003 xtTJ0 r8(,)-3.8(py rgc)62 (MC /H2 >MCID (nv)-e)r0 [C53156)62 P0 [C53h(MC 2)0.62(c)-4w 7.9 (nv)-ec

- *Integrity:*

Admission and Withdrawal

Applications for admission should be directed to the Admissions Office. The student is responsible for meeting all admission requirements; failure to do so within a reasonable period of time after registration may cause the student to be placed on non-credit status for work in which the student is enrolled.

Admission Process & Requirements

Completion of the following is necessary to gain admission to Cisco College.

1. *Application for Admission:* Application for admission is available online at www.cisco.edu.
2. *Official Transcript:*
   - High School – An official transcript from an accredited high school must be filed with the Admissions Office before full admission is granted.
   - Transfer – All official transcripts must be presented before students transferring from other colleges can be accepted. The transcripts must also show evidence of honorable dismissal. Do not send partial or incomplete transcripts unless requested to do so.
   - Examination in Lieu of Transcript - An applicant may be admitted without a high school diploma if the high school class to which the applicant belonged has graduated, the applicant is at least 17 years old and has passed the General Education Development (GED) Test.
   - Specialized Admission Options – See "specialized admission" for the required documentation.
3. *Texas Success Initiative*: Submit scores for the Texas Success Initiative (TSI) or submit proof of exemption. Students who have not taken the TSI test and who are not eligible for an exemption must contact the Cisco College Counseling Office for TSI testing information. Transfer students must also meet TSI requirements.
4. *Health Examination:* A student wishing to participate in collegiate athletics at Cisco College must have a physical examination at their own expense by their own medical doctor and submit the results on the Health Certificate to the appropriate Athletic Coach.
5. *Bacterial Meningitis Vaccination:* Cisco College, in compliance with Texas Education Code, Section 51.9192, Subchapter Z, as amended by the 82nd Texas Legislature, now requires the bacterial meningitis vaccination for all entering students enrolling in classes. Students must provide to the Cisco College Admissions Office a certificate signed by a health practitioner indicating they have been vaccinated against bacterial meningitis. Cisco College and the Texas Education Code make these provisions applicable to entering students only enrolling or transferring to Cisco College on or after January 1, 2012 (students age 22 and above are exempt from vaccination requirement). For information and questions concerning the required bacterial meningitis vaccination, please refer to the Cisco College website or contact the Cisco Admissions Office at 254-442-5130 or email admissions@cisco.edu.
6. *Residency Information:* Texas Higher Education Coordinating Board rule 21.731 requires each student applying to enroll at an institution to respond to a set of core residency questions for the purpose of determining the student's eligibility for classification as a resident. See the Cisco College website, www.cisco.edu, to access the Oath of Residency form and answer these questions. Submit the completed form to the Admissions Office.

Courses taken for credit in which a student has earned a passing grade may be transferred from any college accredited through one of the six regional accrediting associations in the United States. Transfer credit will not be given for developmental, remedial, or any other non-degree credit course.

Transfer students seeking a degree from Cisco College must obtain an evaluation of transfer credits. The evaluation of transfer credits is completed on a course-by-course basis by the Cisco College Counseling Office and will assist the student in preparing the proper degree plan. Approved courses transferred to Cisco College will be documented on the student's academic transcript.

Students transferring to Cisco College will be evaluated for college readiness in one, two or all three areas of the Texas Success Initiative. Students not qualifying as college-ready in all areas will be required to test in those areas prior to enrollment. Students must bring transcripts to a

the residency requirement for graduation. Students planning to transfer CLEP credit(s) to another college or university should check with that school as to its policy on transferring and accepting CLEP credit.

College Board Advanced Placement (AP)

A student may earn credit by examination through the Advanced Placement (AP) Program. Cisco

-1 p7515 TD[cTj[(l)3 (th(c)1.4q(c)1.u)a)7.9 (lac)-6)3 (t f)1f(B)-6y (i)10.7 -0.7 ae 91.9 (26 (e1)-9.4 (i)-3 (ed)5.6 (e) i

and mathematics score of 1070 with a minimum of 500 on the critical reading test shall be exempt for both reading and writing sections of the TSI Assessment, and/or 500 on the mathematics tests shall be exempt for the mathematics section of the TSI Assessment.

- ***SAT testing administered on or after March 5, 2016—***a minimum score of 480 on the Evidenced-Based Reading and Writing (EBRW) test shall be exempt for both reading and writing sections of the TSI Assessment; a minimum score of 530 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment. There is no combined score. The newly-approved scores became effective August 10, 2016.
- ***STAAR testing beginning in spring 2014***—For a period of 5 years from the date of testing, a student who is tested and performs on the eleventh grade exit level STAAR end-of-course (EOC) wih a 4000 minimum score of Level 2 on English III shall be exempt from the TSI assessment required for reading and writing. A student with a 4000 minimum score of Level 2 on the Algebra II EOC shall be exempt from the TSI assessment required for the mathematics section.

Temporary Texas Success Initiative Waivers

A student enrolling in a Level I Certificate Program will have Texas Success Initiative testing requirements waived as long as the student enrolls only in the coursework for a Level I Certificate. Unless otherwise exempt, a student will need to take the TSI prior to enrolling in any coursework towards a degree that is outside the Level I Certificate.

Transfer Student Exemption

Transfer students not exempt by any of the above exemptions may also be evaluated for college readiness by previous coursework in one or bm.6 (e (ew)10.7ude)-5.7h024 Tc 0 Tw T*[(U)3[.5 (d)5.58 (wa9 ( )10.9 (c

-

Financial Aid

Several

amount of Pell Grant funding a student can receive each year is equal to 100%, the six year equivalent is 600%.

Once you have received a Pell Grant for 12 semesters, or the equivalent, you will no longer be eligible for additional Pell Grants:

-

the government when the student is enrolled at least half time, during the six month grace period, and

M.S. and Meek Lane Doss Scholarship

The cumulative record

8	67%	5	2.0
7	67%	5	2.0
6	67%	4	2.0
5	67%	3	2.0
4	67%	3	2.0
3	67%	2	2.0
2	67%	1	2.0
1	67%	1	2.0

Students must complete a minimum of 67% of the course work in which they are enrolled each semester, with a minimum of a 2.0 GPA. The table indicates the attempted credit hour totals and the number of credits that must be completed to meet this requirement.

Pace of Progression Formula

The minimum pace requirement for satisfactory academic progress is 67%. Pace of progression is calculated by dividing the completed semester hours by the attempted semester hours. Completed semester hours includes only all passing grades.

Completed Semester Hours (all passing grades) include all credit hours with a grade of A, B, C, or D on a student's academic record according to the Office of the Registrar and all transfer, remedial, English as Second Language, and dual-credit hours taken in high school. Attempted Semester Hours include All completed credit hours listed above, and all credit hours with a non-passing grade on a student's academic record according to the Office of the Registrar.

First-year Freshman	Fall Semester	Spring Semester	Cumulative Total
Hours Completed	6	10	16
Hours Attempted	12	12	24
Pace of Progression	50%	83%	67%
Financial Aid Status after Semester	Warning	Met SAP	Eligible for aid if GPA is at least a 2.0

First-year Freshman	Fall Semester	Spring Semester	Cumulative Total
Hours Completed	6	9	15
Hours Attempted	12	15	27
Pace of Progression	50%	60%	55%

Financial Aid Suspension (loss of financial aid eligibility)

A student who does not make satisfactory progress while on the warning status level will be suspended from all Title IV financial aid eligibility the next semester of enrollment until all satisfactory progress standards are met at the student's own expense. A student who has financial aid suspended can return to eligibility on a probationary status if granted an appeal.

How to Regain Eligibility

Students on suspension are encouraged to continue enrollment at Cisco College. Enrolling and paying for courses as well as successfully completing courses can assist in regaining eligibility. The student must alert the Financial Aid Staff for a re-evaluation of their SAP status. If the student successfully regains eligible SAP status, then they will be eligible again for federal aid.

Financial Aid Probation (eligible)

A student may appeal ineligibility by providing information on the unavoidable or extraordinary hardships which may have influenced their ability to meet the satisfactory academic progress standards. Examples of unavoidable hardships include illness or injury of a student or family member, separation or divorce, involved in accident or natural disaster, death in immediate family, or other personal problems that affected class participation andAn4.5 (m)-63 (io)-6.67 in9 o 2.2 ( )13 (r)1111 (8 illn)2.3 (e)-3 (s(art)-2.9 (i)10.6 (c)(e)-3

Prior to the first class day	100%
During class days one to five	70%
During class days six and seven	25%
After the seventh class day	None
Prior to the first class day	100%
After first class day	Refer to table provided by Business Office

Class days refer to the number of calendar days the College normally meets for classes, not the days a particular course meets. If a class is canceled by the College, 100% of the tuition and fee charges will be credited to students. Late-registering students will have the time already elapsed in the semester

as amended, Revised Edition 1995, a publication of the American Association of Collegiate

Cisco College requires non-college ready students to begin developmental coursework in the first semester in which they enroll. The College also requires students to continue taking developmental coursework each long semester until they are college-ready. Students who are enrolled full-time during a long semester must register for all of the developmental areas in which they place. Students who are enrolled part-time during a long semester must register for a class in at least one of the developmental areas in which they place. Developmental students enrolling in summer terms or mini-terms may only register for classes for which they are college-ready or that do not require college-readiness.

In order to ensure adequate preparation for success, developmental students are restricted from enrolling into certain college-level courses until they are deemed college-ready (have passed the appropriate college-level co-requisite or have earned a satisfactory score on a TSI approved retest).

Schedule Change

Schedule changes will be allowed online for one week after classes start.

Dropping Courses

A student may drop a course with the permission of their advisor and the Counseling Office, until a date four (4) weeks before the start of final examinations. Students dropping courses will receive a grade of 'W' for each course dropped. A fee of $10 will be charged for each course dropped. Any student who ceases to attend class without officially withdrawing through the Admissions Office is subject to a grade of F.

Drop Limits

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." This statute was enacted by the State of Texas in the Spring of 2007 and applies to students who enroll in a public institution of higher education as first-time freshmen in the Fall of 2007 or later. Any course that a student drops is counted toward the six-course limit if "(1) the student was able to drop the course without receiving a grade or incurring an academic penalty; (2) the student's transcript indicates or will indicate that the student was enrolled in the course; and (3) the student is not dropping the course in order to withdraw from the institution."

A Cisco College student affected by this statute that has attended or plans to attend another institution of higher education should become familiar with that institution's policies on dropping

administered at the Cisco campus Testing Center. Both campuses administer makeup testing for students who are enrolled in Cisco College courses and assist in administering tests for Cisco College students with documented accommodations. Tests may also be administered for Cisco College Students taking classes Acadeum. All testing is administered on an appointment basis. Students seeking testing for documented accommodations should contact the Disability Services Coordinator with their documentation prior to scheduling. Testing and scheduling information is available by contacting the Testing Center at testing@cisco.edu. Information on course placement based on TSI test scores is available by contacting the Admissions office or the Counseling department.

Student Life

Student Activities

From comedians to music, and everything in between, Cisco College Student Activities provide the student body and community with programming and events that are diverse, educational, entertaining and fun. Typical programs include movies, dances, educational speakers, tournaments, comedy/variety shows and other special events. Events must be approved by the Dean of Student Life.

Athletics

Athletic programs at Cisco College compete in Region 5 of the National Junior College Athletics Association. All sports compete at the Division 1 level and offer partial to full athletic scholarships.

Baseball: The Cisco College baseball team plays in the North Texas Junior College Athletic Conference, in which the Wranglers regularly make the conference playoffs. The college athletic facilities in Cisco include a baseball field, an indoor hitting facility and a large, well-appointed field house.

Basketball: Cisco College offers women's basketball, playing in the North Texas Junior College Athletic Conference. The team is international in character, attracting students from around the world each year. Home basketball games are played on the Cisco campus in the Schaefer Hall gymnasium.

Football: The Wrangler football team plays in the Southwest Junior College Football Conference. Home games are played on Chesley Field in Cisco, Texas, and the team has access to [illegible]

Wrangler Cheerleaders

The Cisco College Wrangler Cheerleaders is a co-ed cheer group that promotes spirit and enthusiasm by supporting many athletic events as well as special events in the community. Team membership is by application and/or audition.

Wrangler Day

Wrangler Day is an annual spring semester event which was created to foster community on the Abilene Educational Center campus. Wrangler Day has a western theme; featuring a chili cook-off, food, games, and agricultural activities. This event was designed to create a sense of community for students within Cisco College's commuter campus located in Abilene, TX.

- For an online or hybrid class, a student may be dropped after they fail to access the course web site and/or participate in the class for a two-week period, and the professor deems the student to be failing.

During a summer I, summer II, eight week semester, or mini-semester the following allowances apply:

- During a summer I or II face-to-face class, a student is allowed two absences. Upon the third

Grades

Semester Grade Reports

is judged by their employer to be lacking in technical job skills identified as exit competencies for the specific degree program, the graduate will be provided up to 12 tuition-free credit hours of additional skill training by Cisco College. Full information regarding the procedures and definitions of this guarantee can be obtained from the Provost of the Abilene Educational Center.

Distance Education

Distance Education at Cisco College provides students with flexible ways to earn college credit. Along with the courses delivered at out-of-district locations, the College offers distance instruction in four formats:

- Online course instruction will be delivered asynchronousl

		ARTS 1303 (pending approval), 1304 (pending approval) AGRI 1407, 1415, 1419, 2317
Core Option Area: *Students may select any course(s) listed in this area that they have <u>not</u> already taken to fulfill the required hours for any other core area.*	4 hours	

3. Completes a minimum of 25% of the semester credit hours required for the A.A. degree at Cisco College.
4. Makes a minimum GPA of 2.0 ('C' average) on all work needed for graduation.
5. Satisfactorily settles all business accounts. 6. Meets all Texas Success Initiative requirements.
6. Meets all Texas Success Initiative requirements.

A.A., General Studies Curriculum

Freshman Year

ENGL 1301 Composition I	3	ENGL 1302 Composition II	3
EDUC 1100 Learning Frameworks	1	Social & Behavioral Science*	3
HIST 1301 United States History I	3	HIST 1302 United States History II	3
Creative Arts*	3		

ARTS 1301 or ARTS 1313	3	Social & Behavioral Science*	3
HIST 1301 United States History I	3	HIST 1302 United States History II	3
ARTS 1311 Design I	3	L	

Life & Physical Science***	3	CHEM 1412 General Chemistry II**	4
Language, Philosophy & Culture*	3	BIOL 2421 Microbiology	4
GOVT 2305 Federal Government	3	GOVT 2306 Texas Government	3

**See core curriculum course options.*
***Field of Study courses*
****Suggested Science course options: BIOL 1322, BIOL 2401, BIOL 2402, PHYS 1401, PHYS 1402. Students should consult their intended transfer institution's program requirements before choosing elective courses. Students wishing to take an additional Field of Study course should take PHYS 1401.*
*****Course not offered every year.*
***Biology Field of Study Curriculum**: BIOL 1406, BIOL 1407, CHEM 1411, CHEM 1412, CHEM 2423, PHYS 1401*

A.A., General Studies with an emphasis in Business

An Associate of Arts, General Studies degree with an emphasis in Business leads to a baccalaureate degree in business administration (BBA), or would constitute the basis for a Bachelor of Arts (BA). The A.A., General Studies degree requires a minimum of 60 SCH. Students are not required to take more than 60 course hours to complete an associate degree. Students should consult their intended transfer institution regarding course selections, bachelor degree requirements, and transferability.

Business Field of Study Curriculum

The suggested business degree plan fulfills the 21-hour block of courses that constitutes a Field of Study Curriculum for students seeking the BBA degree, or a B.A./B.S. degree with a major in business. If a student completes part of the Business F.O.S. curriculum, those courses must transfer into a baccalaureate degree program but students may be required to complete the institution's remaining requirements for the lower-division courses in the major. If a student completes the full F.O.S. curriculum, the 21-hour block of courses must be substituted for that institution's lower division requirements for the degree program for the field of study into which the student transfers, and the student shall receive full academic credit toward the degree program for the block of courses transferred.

ENGL 1301 Composition I	3	ENGL 1302 Composition II	3
Life & Physical Science *	4	Life & Physical Science*	4
HIST 1301 United States History I	3	HIST 1302 United States History II	3
EDUC 1100 Learning Frameworks	1	Creative Arts*	3
BCIS 1305 Business Computer Applications**	3	Social & Behavioral Science*	3

GOVT 2305 Federal Government	3	GOVT 2306 Texas Government	3
ECON 2301 Macro Econ.**	3	ECON 2302 Micro Econ.**	3

MATH 1325 Calculus for Business & Social Sciences**	3

Computer Science Field of Study Courses

The suggested computer science degree plan includes courses from the Computer Science Field of Study Curriculum for students seeking a B.A./B.S. degree with a major in computer science. If a student completes part of the Computer Science F.O.S. curriculum, those courses must transfer into a baccalaureate degree program but students may be required to complete the institution's remaining requirements for the lower-division courses in the major.

Freshman Year

ENGL 1301 Composition I	3	ENGL 1302 Composition II	3
MATH 1314 College Algebra	3	Social & Behavioral Science*	3
BCIS 1305 Business Computer Appl.	3	Life & Physical Science*	4
HIST 1301 United States History I	3	HIST 1302 United States History II	3
Life & Physical Science*	4	MATH 2412 Precalculus	4

Sophomore year

MATH 2413 Calculus I W/ Analytical Geometry**	4	MATH 2414 Calculus II W/ Analytical Geometry**	4
GOVT 2305 Federal Government	3	SPCH 1315 Public Speaking	3
Language, Philosophy & Culture*	3		

of courses must be substituted for that institution's' lower-division requirements for the degree program for the field of study into which the student transfers, and the student shall receive full academic credit toward the degree program for the block of courses transferred.

COMM 1307 Introduction to Mass Communication	3	SPCH 1315 or SPCH 1321	3
Mathematics**	3	Life & Physical Science*	4

**See core curriculum course options.*

A.A., General Studies with an emphasis in Mathematics

The following suggested degree plan is for students intending to transfer to a baccalaureate program in mathematics or constitutes the basis for a Bachelor of Arts program (BA). The A.A., General Studies degree requires a minimum of 60 SCH. Students are not required to take more than 60 course hours to complete an associate degree. Students should consult their intended transfer institution regarding course selections, bachelor degree requirements, and transferability.

Mathematics Field of Study Courses

The suggested mathematics degree plan includes courses from the Mathematics Field of Study Curricula for students seeking a B.A./B.S. degree with a major in math. If a student completes part of the Mathematics F.O.S. curricula, those courses must transfer into a baccalaureate degree program but

requires a minimum of 60 SCH. Students are not required to take more than 60 course hours to complete an associate degree. Students should consult their intended transfer institution regarding course selections, bachelor degree requirements, and transferability.

Freshman Year

ENGL 1301 C (c)6 .7 (GL)-4.9 (1)6 /

Life & Physical Science*	4	Life & Physical Science*	4
MATH 1314 College Algebra	3	Creative Arts*	3
PSYC 2301 General Psychology	3	BCIS 1305 Business Computer Appl.	3

Sophomore year

SOCI 1301 Introductory Sociology**	3	SPCH 1315 or SPCH 1321	3
SOCI 2301 Marriage & the Family**	3	SOCI 1306 Social Problems**	3
ECON 2301 Prin. of Economics	3	ECON 2302 Prin. of Economics	3
GOVT 2305 Federal Government	3	GOVT 2306 Texas Government	3
ENGL 23xx	3	KINE Physical Training	1

**See core curriculum course options.*
***Field of Study courses.*

A.A., General Studies with an emphasis in Speech Communication

The following suggested degree plan is for students intending to transfer to a baccalaureate program in speech communication or constitutes the basis for a Bachelor of Arts program (BA). The A.A., General Studies degree requires a minimum of 60 SCH. Students are not required to take more than 60 course hours to complete an associate degree. Students should consult their intended transfer institution regarding course selections, bachelor degree requirements, and transferability.

Communication Field of Study Courses

The suggested Speech degree plan includes courses from the 12-hour block of courses that constitutes a Field of Study Curriculum for students seeking a B.A. or B.S. degree with a major in Communication. If a student completes part of the Communication F.O.S. curriculum, those courses must transfer into a baccalaureate degree program but students may be required to complete the institution's remaining requirements for the lower-division courses in the major.

The Communication F.O.S. curriculum may also serve as the foundation for teacher preparation and must be included in teacher certification requirements for students who complete the full F.O.S. curriculum.

Freshman Year

ENGL 1301 Composition I	3	ENGL 1302 Composition II	3
HIST 1301 United States History I	3	HIST 1302 United States History II	3
Life & Physical Science*	4	Life & Physical Science*	4
Mathematics**	3	Social & Behavioral Science*	3
SPCH 1315 Public Speaking***	3	SPCH 1321 Bus & Prof. Comm.***	3

Sophomore year

4. Makes a minimum GPA of 2.0 ('C' average) on all work needed for graduation.
5. Satisfactorily settles all business accounts.
6. Meets all Texas Success Initiative requirements.

A.S., General Studies Curriculum

Freshman Year

ENGL 1301

**See core curriculum course options.*
***Field of Study courses*
****Suggested Science electives: BIOL 1322, BIOL 2401, BIOL 2402, PHYS 1401, PHYS 1402. Students should consult their intended transfer institution's program requirements before choosing elective courses. Students wishing to take an additional Field of Study course should take PHYS 1401.*
***Biology Field of Study Curriculum**: BIOL 1406, BIOL 1407, CHEM 1411, CHEM 1412, CHEM 2423, PHYS 1401*
*****Course not offered every year*

A.S., General Studies with an emphasis in Chemistry

The following suggested degree plan is for students intending to transfer to a baccalaureate program in chemistry or constitutes the basis for a Bachelor of Science program (BS). The A.S., General Studies degree requires a minimum of 60 SCH. Students are not required to take more than 60 course hours to complete an associate degree. Students should consult their intended transfer institution regarding course selections, bachelor degree requirements, and transferability.

Freshman Year

ENGL 1301 Composition I	3	ENGL 1302 Composition II	3
MATH 1314 or 2412**	3/4	SPCH 1315 or 1321 or BCIS 1305	3
HIST 1301 United States History I	3	HIST 1302 United States History II	3
CHEM 1411 General Chemistry I	4	CHEM 1412 General Chemistry II	4
		MATH 1316*** or 2412 or 2413	3/4

Sophomore year

Creative Arts*	3	CHEM 2425 Organic Chemistry II	4
MATH 2413 or MATH Elective	3/4	MATH 2414 or MATH Elective	3/4
Social & Behavioral Science*	3	GOVT 2306 Texas Government	3
GOVT 2305 Federal Government	3	Language, Philosophy & Culture*	3
Elective	3	Elective	3

**See core curriculum course options.*
***The choice between MATH 1314 or MATH 2413 should depend on the college-readiness status of the student. Students unsure of their readiness for MATH 2413 should contact the chairperson of the mathematics division.*
****Course not offered every year.*

A.S., General Studies with an emphasis in Computer Science

The following suggested degree plan is for students intending to transfer to a baccalaureate program in computer science or constitutes the basis for a Bachelor of Science program (BS). The A.S., General Studies degree requires a minimum of 60 SCH. Students sh .3 (a)1Icinimeathim-5.9 (s)10.6 (t)-3 6h .e3 6hr2.4 8 i m-0.8 (t)-

Psychology Field of Study Courses

The suggested psychology degree plan includes courses from the Psychology Field of Study Curriculum (F.O.S.) for students seeking a B.A./B.S. degree with a major in psychology. If a student completes part of the Psychology F.O.S. curricula, those courses must transfer into a baccalaureate degree program but students may be required to complete the institution's remaining requirements for the lower-division courses in the major.

Freshman Year

PSYC 2301 General Psychology**	3	SPCH 1321 Business & Prof. Comm.	3
ENGL 1301 Composition I	3	ENGL 1302 Composition II	3
HIST 1301 United States History I	3	HIST 1302 United States History II	3
Foreign Language	4	Life & Physical Science*	4
SPCH 1315 Public Speaking	3	MATH 1314 College Algebra	3
	3	KINE Physical Training	1

Sophomore year

PSYC 2314 Lifespan Growth and Dev**	3	Creative Arts*	3
GOVT 2305 Federal Government	3	GOVT 2306 Texas Government	3
BIOL 2401 Anat. & Phys. I	4	BIOL 2402 Anat. & Phys. II	4
ENGL 2322 or ENGL 2327 or ENGL 2332	3	ENGL 2322 or ENGL 2327 or ENGL 2332	3
		KINE Physical Training	1

**See core curriculum course options.*
***Field of Study courses.*

Associate of Arts in Teaching Degree

The Associate of Arts in Teaching (A.A.T.) degree is a Board-approved collegiate degree program consisting of lower-division courses intended for transfer to baccalaureate programs that lead to initial Texas teacher certification. The A.A.T. is fully transferable to any Texas public university offering baccalaureate degree programs leading to initial teacher certification. A.A.T is.Aoswdi-1.3 (I ( )10.6 ( )10. (r 0 Tw at)d()r)T

3. Satisfactorily completes a degree program comprised of 60 semester hours, depending on the type of initial Texas Teacher Certification being sought. Although the Cisco College core

Automotive Technology Associate of Applied Science

Students must complete a minimum of 25% of the semester credit hours required for the A.A.S. degree at Cisco College.

Freshman Year

AUMT 1305 Intro to Automotive Tech	3	AUMT 2417 Engine Perf. Analysis I	4
AUMT 1407 Auto Electrical Systems	4	AUMT 2443 Emissions Systems Diag.	4
AUMT 1419 Auto Engine Repair	4	AUMT 2313 Automotive Drive Train & Axles	3
PSYC 2301 or SOCI 1301	3	Core Curriculum elective*	3
		Language, Philosophy & Culture Elective	3

Sophomore year

AUMT 1410 Automotive Brake Syst.	4	AUMT 1445 Auto Climate Control	4
AUMT 1416 Suspension & Steering	4	AUMT 2325 Auto Trans. & Transaxle	3
AUMT 2434 Auto Engine Performance Analysis II	4	AUMT 2421 Auto Electrical Diag.	4
ENGL 1301 Composition I or ENGL 2311 Technical & Business Writing	3	MATH 1314 College Algebra or MATH 1332 Contemporary Math	3

Automotive Drivability Level I Certificate

AUMT 1410 Auto Brake Systems	4	AUMT 1445 Auto Climate Control	4
AUMT 1416 Suspension & Steering	4	AUMT 2325 Auto Trans. & Transaxle	3
AUMT 1419 Auto Engine Repair	4	AUMT 2421 Auto Electrical Diag.	4
AUMT 2443 Adv. Emissions Syst. Diag	4		

Diesel Technology Level I Certificate

DEMR 1405 Basic Electrical Systems	4	DEMR 1410 Diesel Engine Testing & Repair I	4
DEMR 1401 Shop Safety & Procedures	4	DEMR 2438 Advanced Power Applications I	4
DEMR 1413 Fuel Systems	4	DEMR 2439 Advanced Electrical Systems	4

to communicate effectively in written, verbal, nonverbal, and electronic formats. Graduates will be able to work with a demographically diverse workforce and conduct business professionally with other countries and cultures.

The Associate in Applied Science Degree in Business Systems Technology offers courses in contemporary office technologies and procedures. A level one Administrative Technician certificate and a level two Administrative Specialist certificate are also offered in the BST program. The program uses a hands-on approach to instruction in computer applications including word processing, electronic spreadsheets, database management, and presentation software. In addition to computer skills, other important business skills such as business communications and principles of management are required in the program. The BS2.2 (ic)-2 (ian)20-a6 (n(BS)12.3 (2h)4.3 (m)-6.4 TJ-0.>>B)]TJ-410.7 (m)-9.4 j co-4.3 (s)-4.3 (6 0 Td(,)Tm)-6.

Business Systems Technology Level II Certificate

(Not currently enrolling new students in program.)

ACNT 1303 Intro to Accounting I	3	ACNT 1304 Intro to Accounting II	3
POFI 2301 Word Processing	3	POFT 1309 Admin Office Procedures	3
POFT 1325 Business Math	3	POFT 2312 Business Communications	3
ITSW 1410 Intro. to Pres. Graphics or ITSW 1407 Intro to Database	4	POFT 1319 Records & Info Man.	3
POFT 1313 Prof. & Pers. Dev.	3	ITSW 1404 Intro to Spreadsheets	4

MATH 1314, MATH 1332, MATH 1342, GEOL 1403 or BIOL 1411	3	SPCH 1315 Public Speaking	3
CDEC 2315 Diverse Cultural/Multi-lingual Education	3	PSYC 2301 General Psychology	3

**See core curriculum course options.*
***CDEC 2366 Prerequisite- must have passed CDEC 1366*
****Choose from: CDEC 1321, CDEC 2341, CDEC 2304, CDEC 2326 OR EDUC 1301*

Child Development Level II Certificate

CDEC 1303 Families, School & Comm.	3	CDEC 1319 Child Guidance	3
CDEC 1311/TECA 1311 Educating Young Children	3	CDEC 1323 Obs. & Assess of Young Children	3
CDEC 1313 Curriculum Resources	3	CDEC 1356 Emergent Literacy for Early Childhood	3
CDEC 1318/TECA 1318 Wellness of the Young Child	3	CDEC 1366 Practicum I	3
CDEC 1359 Children with Special Needs	3	CDEC 2315 Diverse Cultural/Multi-lingual Education	3

CDEC 1354/TECA 1354 Child Growth	3
CDEC 1321 The Infant and Toddler	3
CDEC 1358 Creative Arts for Young Child.	3
CDEC 2307 Math & Science for Early Childhood	3
CDEC 2366 Practicum II**	3
CDEC XXXX Elective***	

**CDEC 1366 Prerequisite- must have passed at least 12 hours in Child Development before enrolling in this course.*

Child Development Marketable Skills Award

CDEC 1303 Families, Schools, Communities	3
CDEC 1311/TECA 1311 Educating Young Children	3
CDEC 1318 TECA/1318 Wellness of the Young Child	3
CDEC 1319 Child Guidance	3

Cosmetology (Cisco Only)

Students entering the Cisco College Cosmetology program must be high school graduates or should have established a high school equivalency and be at least 18 years of age. Prospective students should apply early.

The primary purpose of Cisco College's cosmetology program is to prepare competent cosmetologists and to provide specialized training, thereby affording the student an opportunity for immediate employment upon completion of the program. A further objective is to equip the student with the basic knowledge and skills that will be useful in the cosmetology field.

The State requires certain information from prospective students prior to enrollment including proof of age, citizenship and proof of high school graduation or GED, and a criminal background check. Licenses will be issued upon satisfactory completion of state examination. The program requires a $25.00 permit fee.

Cisco College offers courses leading to licenses for operators and instructors. The operator program is a 2-semester program consisting of successful completion of 30 credit hours equivalent to 1000 hours. The instructor program requires a valid Texas Operators License plus one year of experience and the completion of 12 credit hours (one semester) equivalent to 500 hours or a valid Texas Operators License and the successful completion of 24 credit hours (two semesters) equivalent to 750 hours.

Cosmetology Associate of Applied Science

Students must complete a minimum of 25% of the semester credit hours required for the A.A.S. degree at Cisco College.

CSME 1401 Orientation to Cosmetology	4	CSME 1310 Introduction to Haircutting and Related Theory	3
CSME 1354 Artistry of Hair Design I	3	CSME 2401 Principles of Hair Coloring and Related Theory	4

CSME 1447 Principles of Skin Care/Facials and Related Theory	4	CSME 1453 Chemical Reformation/Theory	4
CSME1443 Manicuring and Related Theory	4	CSME 1405 Fundamentals of CoshomentaheytMECd	4

ChemTw 11.04T\

criminal justice professionals. The criminal justice courses in this plan are recommended by T.C.L.E.O.S.E. Possible care c13. I(13.f6a ((0)-1s (t)-2.9 (33 9 ()9.5 (e)]TJ(n)2.3 (2)-2.9 (33 ((0)-19 (e)-3 o)4)]TJm]T6)4TJp ()9.

Language, Philosohpy & Culture or Creative Arts	3	GOVT 2305 Federal Government	3

12.92 442.81

*Field of Study Curriculum (CPL courses only)

CJSA 1359/CRIJ 2328** Police Systems & Practices	3	CJSA 1317/CRIJ 1313 Juvenile Justice	3
CJSA 1327/CRIJ 1310** Fundamentals of Criminal Law	3		

FIRT 2309 Firefighting Strategies and Tactics I	3	FIRT 1338 Fire Protection Systems	3
FIRT 1353 Legal Aspects of Fire Protection	3	FIRT 1349 Fire Administration II	3
FIRT 1303 Fire and Arson Investigation	3	ENGL 1301 Composition I or ENGL 2311 Technical & Business Writing	3
FIRT 1307 Fire Prevention Codes/Inspection	3	ARTS 1301 Art Appreciation	3
FIRT 1343 Fire Officer II	3	SPCH 1315 Public Speaking	3
FIRT 1315 Hazardous Materials	3	PSYC 2301 General Psychology	3
FIRT 2307 Fire Instructor II	3	MATH 1314 College Algebra or MATH 1332 Contemporary Math	3

FIRT 2309 Firefighting Strategies and Tactics I	3

HVACR Technology (Abilene Only)

The Heating, Ventilation, Air Conditioning and Refrigeration Technology Certificate Program prepares individuals to apply technical knowledge and skills to install, service, repair and maintain the equipment used in heating, air conditioning and refrigeration systems. The curriculum includes instruction in system operations; diagnostic techniques; the use of testing equipment; principles of mechanics; and electricity and electronics as they relate to heating, air conditioning and refrigeration systems.

***Capstone: Competency Exam*

Industrial Technology Level II Certificate

ELPT 2419 Programmable Logic Controllers I	4	CETT 1402 Electricity Principles	4
PFPB 1421 Plumbing Maintenance & Repair	4	BMGT 1482 Co-op Ed: Industrial Tech	4
DFTG 1409 Basic Comp. Aided Drafting	4	HART 1407 Refrigeration Principles	4
HYDR 1345 Hydraulics and Pneumatics	3	HART 2441 Commercial	

ACNT 1303 Intro to Accounting I	3	ITSW 1404 Intro to Spreadsheets	4

Real Estate (Abilene Only)

The Real Estate program provides the specific core Real Estate courses and 180 classroom hours required for the Salesman and Broker Licensure and renewal by the Texas Real Estate Commission that

Abilene Campus

Welding Technology Level II Certificate

WLDG 1421 Intro to Welding Fundamentals	4	WLDG 1317 Intro to Pipe Welding	3
WLDG 1435 Intro To Pipe Welding	4	WLDG 1434 Intro to GTAW	4
WLDG 1430 Intro to GMAW	4	WLDG 2451 Advanced GTAW	4
WLDG 1412 Intro to FCAW	4	WLDG 2453 Advanced Pipe Welding	4
WLDG 2443 Advanced SMAW	4		
WLDG 2452 Advanced FCAW	4		
WLDG 2435 Advanced Layout/Fab	4		
WLDG 1413 Blueprint Reading	4		

+Capstone: Departmental Procedural Exam

Advanced Welding Technology Level I Certificate

WLDG 2453 Advanced Pipe Welding	4	WLDG 2435 Advanced Layout/Fab	4
WLDG 2451 Advanced GTAW	4	WLDG 1413 Blueprint Reading	4
WLDG 2443 Advanced SMAW	4		
WLDG 2452 Advanced FCAW	4		

+Capstone: Departmental Procedural Exam

Welding Technology Level I Certificate

WLDG 1317 Intro to Layout/Fab	3	WLDG 1435 Intro to Pipe Welding	4
WLDG 1421 Intro to Welding Fundamentals	4	WLDG 1434 Intro to GTAW	4
WLDG 1430 Intro to GMAW	4		
WLDG 14212 Intro to FCAW	4	**Students are advised to begin 1st 8 weeks*	

Basic Welder Certificate

WLDG 1421 Welding Fundamentals	4
WLDG 1430 Intro to Gas Metal Arc Welding	4
WLDG 1435 Intro to Pipe Welding	4

Cisco Campus

Welding Technology Level II Certificate

WLDG 1421 Welding Fundamentals	4	WLDG 1317 Intro to Layout & Fab	3
WLDG 1430 Intro to Gas Metal Arc Welding	4	WLDG 1434 Intro to GTAW	4
WLDG 1412 Intro to FCAW	4	WLDG 1435 Intro to Pipe Welding	4
WLDG 2435 Adv Layout & Fab	4	WLDG 1413 Intro to Welding Blueprint Reading	4
WLDG 2443 Adv SMAW	4	WLDG 2451 Adv GTAW	4
WLDG 2452 Adv FCAW	4	WLDG 2453 Adv Pipe Welding	4

+Capstone:

WLDG 1435 Intro to Pipe Welding	4

Health Science Programs (Abilene Only)

Cisco College offers programs that prepare its graduates to become key members of the healthcare team. Students may pursue coursework leading to a majors, degrees and/or certificates in Medical Assisting, Nursing, Pharmacy Technician, Respiratory Therapy and Surgical/Operating Room Technology. Coursework available at Cisco College allows students to prepare for employment in a variety of community and institutional healthcare settings and/or pursue advanced degrees in health-related studies. Students are advised that many of the clinical sites utilized in the program require a background check and/or drug screening before the student can participate in the clinical portion of the program.

Medical Assisting (Abilene Only)

Medical assistants perform routine clinical and administrative tasks in clinics of physicians, podiatrists, chiropractors, optometrists, and in urgent care facilities. The duties of medical assistants vary from office to office, depending on office location, size, and specialty.

The Medical Assisting Technology program offers a two semester Level II Certificate in Clinical Administrative Medical Assiting. The Medical Assisting Technology program provides courses for those who wish to be employed in clinics and urgent care facilities. Completion of the Medical Assisting Technology Level II Certificate prepares the graduate to test for the National Certified Clinical Medical Assistant

Clinical and Administrative Medical Assisting Level II Certificate

MDCA 1313 Medical Terminology	3	MDCA 1417 Procedures Clinical Setting	4
MDCA 1409 A&P for Medical Assistants	4	MDCA 1452 Med Assist Lab Procedures	4
MDCA 1310 Medical Assistant IntIntntntnt1	6 6 2 . 6 4		

Admission Criteria:

1. Must have completed the Cisco College general admission application and be enrolled as a student of Cisco College.
2. Must be TSI complete or college ready in Reading, Writing and Math.
3. Must submit official copies of all college transcripts regardless of classes or grades.
4. Must be a high school graduate or have a GED. Either an official copy of the high school diploma or a copy of the GED must be submitted.
5. Must complete all prerequisite courses prior to the start of the program.
6. Must submit a current, complete nursing program application – available in the Health Sciences office.
7. Must have completed the Hep B immunization series of 3 shots or provide serologic confirmation of immunity to the Hepatitis B virus before student can submit an application.
8. Must complete the CNA program prior to starting the Vocational Nursing program.
9. Must be certified as a CNA prior to the start of the second semester.
10. Must take the Health Education Systems Incorporated (HESI A-2) Admission Assessment during one of our scheduled testing sessions. A minimum passing rate is 75% on each component of the test; however, scores of less than 75% do not automatically preclude a student from consideration. The test includes the following subjects: Reading Comprehension, Vocabulary and General Knowledge, Grammar, Critical Thinking and Math.

1. All applicants for admission who meet the minimal criteria for admission will be considered; however, the number of applicants normally exceeds the number of students who can be admitted to each class.
2. Preference for admission is determined by the following factors:
   a. Number of appropriate technical/academic courses completed.
   b. Cumulative GPA will be based on all classes pertaining to nursing, including the prerequisites – 3.0 preferred
   c. Science GPA – 3.0 preferred
   d. HESI scores
   e. Oral interview
3. Applications are accepted for the January program through October 15th; February 15th for the May program and June 15th for the August program.

Students will receive VN Student Handbooks by the first class day.

Technician application packet.

To be accepted into the program, students must fill out a general application to Cisco College and a Pharmacy Technician program application. Students must be able to provide immunization records and pass a drug screen prior to clinical rotations. Students will be required to obtain the Basic Life Support for Healthcare Providers certification (CPR) and register with the Texas State Board of Pharmacy before clinical rotations. The Texas State Board of Pharmacy will complete a background check and require fingerprints for registration as a Technician Trainee.
The Pharmacy Technician Program is accredited by the American Society of Health-system Pharmacists (ASHP) along with the Accreditation Council for Pharmacy Education (ACPE) and the Pharmacy Technician Commission (PTAC). For more information, contact the Program Director of the Pharmacy Technician program.

Pharmacy Technician Associate of Applied Science

Prerequisites		***First Semester***	
PHRA 1301 Intro to Pharmacy	3	PHRA 1306 Computerized Drug Delivery Systems	3
PHRA 1309 Pharmaceutical Mih emester			

Course Descriptions

The

TCCNS provides a shared, uniform set of course descriptions for students and their advisors to use in determining both course equivalency and degree applicability of transfer credit on a statewide basis. When students transfer between two participating TCCNS institutions, a course taken at the sending institution transfers as the course carrying or cross-referenced with the same TCCNS designation at the receiving institution. Transfer courses having a common TCCNS number are indicated with an asterisk (*) on the following pages.

Courses are numbered by a four-digit number in the following manner: The first digit identifies the academic level: zero (0) indicates non-credit, one (1) indicates freshman level and two (2) indicates sophomore level. The second digit identifies credit hour value. The third and fourth digits uniquely identify the course.

For example, ENGL 1301 is a freshman level, 3-semester hour course and should be taken first in any

AGRI 1415 Horticulture*

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. Three lecture hours, three lab hours per week.
Credit: 4 semester hours

AGRI 1419 Introductory Animal Science*

Scientific animal production and the importance of livestock and meat industries. Selection,

*

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. Three lecture hours, three lab hours per week.
Credit: 3 semester hours

ARTS 1317 Drawing II*

A studio course exploring drawing with continued emphasis on descriptive, expressive and conceptual approaches. Students will further develop the ability to see and interpret a variety of subjects while using diverse materials and techniques. Course work will facilitate a dialogue in which students will employ critical analysis to broaden their understanding of drawing as a discipline. Three lecture hours, three lab hours per week.
Credit: 3 semester hours
Prerequisite: ARTS 1316

ARTS 1325 Drawing and Painting*

Drawing and painting for non-art majors. Three lecture hours per week.
Credit: 3 semester hours.

ARTS 2313 Design Communications I*

Communication of ideas through processes and techniques of graphic design and illustration. Three hours lecture.
Credit: 3 semester hours.

ARTS 2316 Painting I*

Exploration of ideas using painting media and techniques. Three lecture hours, three lab hours per week.
Credit: 3 semester hours
Co-requisite: ARTS 1311 or 1316

ARTS 2317 Painting II*

Exploration of ideas using painting media and techniques. Three lecture hours, three lab hours per week.

AUMT 2457 Automotive Alternative Fuels

A study of the composition and use of various alternative automobile fuels including retrofit procedures and applications, emission standards, availability, and cost effectiveness. Overview of federal and state

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, and scientific reasoning are included. Three lecture hours, three lab hours per week.
Credit: 4 semester hours
Pre-requisite: MATH 1314 College Algebra (3 SCH version) Successful completion of College Algebra or concurrent enrollment in higher-level mathematics is recommended.

BIOL 1407 Biology for Science Majors II*

The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Three lecture hours, three laboratory hours per week.
Credit: 4 semester hours
Prerequisite: BIOL 1406

BIOL 1408 Biology for Non-Science Majors I*

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Laboratory activities will reinforce same topics. Three lecture hours, three laboratory hours per week.
Credit: 4 semester hours

BIOL 1409 Biology for Non-Science Majors II*

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Laboratory activities will reinforce same topics. Three lecture hours, three laboratory hours per week.
Credit: 4 Semester hours

BIOL 1411 General Botany*

Fundamental biological concepts relevant to plant physiology, life cycle, growth and development, structure and function, and cellular and molecular metabolism. The role of plants in the environment, evolution, and phylogeny of major plant groups, algae, and fungi. (This course is intended for science majors.)
Credit: 4 semester hours
Prerequisite: MATH 1314 College Algebra (3 SCH version). Successful completion of College Algebra or concurrent enrollment in higher-level mathematics is recommended.

BIOL 1413 General Zoology*

Fundamental biological concepts relevant to animals, including systematics, evolution, structure and function, cellular and molecular metabolism, reproduction, development, diversity, phylogeny, and ecology. (This course is intended for science majors.)
Credit: 4 semester hours
Prerequisite: MATH 1314 College Algebra (3 SCH version). Successful completion of College Algebra or concurrent enrollment in higher level mathematics is recommended.

Business & Management

Business Systems Technology / Management

ACNT 1303 Introduction to Accounting I

A study of analyzing, classifying, and recording business transactions in a manual and computerized

BMGT 1391 Special Topics in Business Administration Management and General Topics

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.
Credit: 3 semester hours

BMGT 1482, 1483, 2482 Cooperative Education

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. One lecture hour, twenty-one lab hours per week.
Credit: 4 semester hours

BMGT 2303 Problem solving and Decision Making

Decision-making and problem-solving processes in organizations utilizing logical and creative problem solving techniques. Application of theory is provided by experiential activities using managerial decision tools. Three lecture hours per week.
Credit: 3 semester hours

BMGT 2305 Advanced Communications in Management

A study of advanced principles of oral and written communications for managers. Three lecture hours per week.
Credit: 3 semester hours

BMGT 2309 Leadership

Concepts of leadership and its relationship to management. Prepares the student with leadership and communication skills needed to motivate and identify leadership styles. Three lecture hours per week.
Credit: 3 semester hours

BMGT 2311 Change Management

Knowledge, skills, and tools that enable a leader/organization to facilitate change in a pro-active participative style. Three lecture hours per week.
Credit: 3 semester hours

BMGT 2347 Critical Thinking and Problem Solving

Instruction in interpreting data for effective problem solving and recommending corrective action with emphasis on a structured approach to critical thinking and problem solving in a term environment.
Credit: 3 semester hours

BMGT 2431 Principles of Quality Management

Quality of productivity in organizations. Includes planning for quality throughout the organization, analysis of costs of quality, and employee empowerment. Four lecture hours per week.
Credit: 4 semester hours

Introduction to the marketing mix functions and process. Includes identification of consumer and organizational needs and explanation of environmental issues. Three lecture hours per week.
Credit: 3 semester hours

MRKG 2348 Marketing Research and Strategies

POFT 1319 Records and Information Management I

Introduction to basic records information management filing systems including manual and electronic filing. Three lecture hours per week.
Credit: 3 semester hours

POFT 1325 Business Math and Machine Applications

Business math problem-solving skills using office technology. Three lecture hours per week.
Credit: 3 semester hours

POFT 2301 Intermediate Keyboarding

A continuation of keyboarding skills emphasizing acceptable speed, and accuracy levels and formatting documents. Two lecture hours, two lab hours per week.
Credit: 3 semester hours

POFT 2312 Business Correspondence & Communications

Development of writing and presentation skills to produce effective business communications. Three lecture hours per week.
Credit: 3 semester hours

POFT 2431 Administrative Systems

Advanced concepts of project management and office procedures integrating software applications. Three lecture hours and three lab hours per week.
Credit: 4 semester hours
Prerequisite: Computer application software proficiency and basic office procedures competency.

POFT 2433 Advanced Keyboarding

Study of advanced concepts in variety of office-simulated correspondence activities with emphasis on organization, prioritizing, decision making, composition, placement, accuracy, and speed development. Two lecture hours, three lab hours per week.
Credit: 4 semester hours
Prerequisite: POFT 2301

Chemistry

CHEM 1405 Introductory Chemistry I*

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students. (This course may not be substituted for CHEM 1411). Three lecture hours, four lab hours per week.
Credit: 4 semester hours
Prerequisite: MATH 0402 or equivalent
Note: This course is only offer

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. A continuation of Chemistry 2423. Three lecture hours, four laboratory hours per week.
Credit: 4 semester hours
Prerequisite: Chemistry 2423
Note: this course only offered at the Abilene location.

Child Development and Early Childhood

CDEC 1303 / TECA 1303* Families, School & Community

Study of the child, family, community, and schools. Includes parent education and involvement, family and community lifestyles, child abuse, and current family life issues. Course content is aligned with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Requires students to participate in a minimum of 16 hours field experience with

Credit: 3 semester hours

CDEC 1319 Child Guidance

An exploration of guidance strategies for promoting prosocial behaviors with individual and groups of children. Emphasis on positive guidance principles and techniques, family involvement, and cultural influences. Practical application through direct participation with children. Three lecture hours per week.
Credit: 3 semester hours

CDEC 1321 The Infant and Toddler

A study of appropriate infant and toddler programs (birth to age 3), including an overview of development, quality routines, learning environments, materials and activities, and teaching/guidance techniques. Three lecture hours per week.
Credit: 3 semester hours

CDEC 1323 Observation and Assessment

A study of observation skills, assessment techniques, and documentation of children's development. Three lecture hours per week.
Credit: 3 semester hours

CDEC 1335 Early Chi C C r e d i t : 3

A study of appropriate programs for the school age child (5 to 13 years), including an overview of development, learning environments, materials, and activities and teaching/guidance techniques. Three lecture hours per week.
Credit: 3 semester hours

CDEC 2366 Practicum (or Field Experience)-Child Care Provider/Assistant

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. One lecture hour, 20 lab hours per week.
Credit: 3 semester hours

CDEC 2422 Child Development Associate Training II

A continuation of the study of the requirements for the Child Development Associate National Credential (CDA). The six functional areas of study include safe, healthy learning environment, self, social and guidance. Three lecture hours, four lab hours per week.
Credit: 3 semester hours

CDEC 2424 Child Development Associate Training III

A continuation of the study for the requirements for the Child Development Associate National Credential (CAN). The four functional areas of study are creative, cognitive, physical, and communication. Three lecture hours, four lab hours per week.
Credit: 3 semester hours

Communication

COMM 1307 Introduction to Mass Communication*

Survey of basic content and structural elements of mass media and their functions and influences on society. Three lecture hours per week.
Credit: 3 semester hours

COMM 1318 Photography I*

Introduction to the basics of photography, including techniques and equipment operation. Three lecture hours per week.
Credit: 3 semester hours

COMM 1335 Introduction to Electronic Media*

An overview of the development, regulation, economics, social impact, and industry practices in electronic media. Three lecture hours per week.
Credit: 3 semester hours

COMM 2300 Media Literacy*

Criticism and analysis of the function, role, and responsibility of the mass media in modern society from the consumer perspective. Includes the ethical problems and issues facing each media format, with the effect of political, economic, and cultural factors on the operation of the media. Three lecture hours per week.
Credit: 3 semester hours

COMM 2302 Principles of Journalism*

This course examines major issues facing the news media in a democratic society and explores journalism's role in shaping public perception and affecting policy. Three lecture hours per week.
Credit: 3 semester hours

COMM 2311 Media Writing*

Fundamentals of writing for the mass media. Includes instruction in professional methods and techniques for gathering, processing, and delivering content. Three lecture hours per week.
Credit: 3 semester hours
Prerequisite: ENGL 1301

COMM 2315 News Reporting* Cram: d semester hours

This course focuses on advanced news-gathering and writing skills. It concentrates on the three-part process of producing news stories:

Field of Study Curriculum for Computer Science. Software fee charged.
Credit: 3 semester hours

COSC 1337 Programming Fundamentals II (3 SCH version)

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.) Software fee charged.
Credit: 3 semester hours
Prerequisite: COSC 1336 or COSC 1436

COSC 2325 Computer Organization (3 SCH version)

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/1it SCH v4 (ro)-6.6 (d)2.3 (u)2(y)-4.5 8 (t)d-3 (rau)2(y)2.9 (hcn)2.2 14(C)-8.7 (H)-5.5 (9 (/1itP)-2(S)2.5 (C)-8m-2

Credit: 4 semester hours

CSME 1405 Fundamentals of Cosmetology

A course in the basic fundamentals of cosmetology. Theory and clinical practice in preparation for state board examination, shampoo, facial, chemical services, shampoo, haircut, wet styling, and comb out. Two lecture hours, eight lab hours per week.
Credit: 4 semester hours

CSME 1434 Cosmetology Instructor I

The fundamentals of instructing cosmetology students. Two lecture hours, seven lab hours per week.
Credit: 4 semester hoursa.3 (45am)-1.6 (C)2.7 (r)3.4Tc - ( )5.5 (TJ0.024 Tc Pho)-(e)-2.8 (c)-1-2.8 (c)-q-0.003.5 (re)i2

Presentation of the theory and practice of chemical reformation. Topics include terminology application and work place competencies related to chemical reformation. Two lecture hours, seven lab hours per week.
Credit: 4 semester hours

CSME 2237 Advanced Cosmetology Techniques

Mastery of advanced cosmetology techniques including hair designs, professional cosmetology services, and workplace competencies. One lecture hour, eight lab hours per week.
Credit: 2 semester hours

CSME 2244 Preparation for State Written Examination

Presentation and practice of the theory, techniques, and application relating to the curriculum for the completion of the State Licensing Written Exam. One Lecture hours and three lab hours per week.
Credit: 2 semester hours.

CSME 2245 Preparation for State Practical Examination

Presentation and practice of the theory, techniques, and application relating to the curriculum for the completion of the State Licensing Practical Exam. One lecture hour and three lab hours per week.

Praca-2.7 (ic)-1.7 F (c)luurend (t)-2-/4MCID 10 >>B (a)10.9 (m)-6.1- c the .uo P f2.5 (m)-Td ( )Tj EMc

Praca-2.7 (ic)-1.7 F (c)luurend (t)-2-/4MCID 10 >>B (a)10.9 (m)-6.1- c One lec(t)-5.7 (ur)-2.6 .00Tw 0.

Credit: 3 semester hours

CSME 2444 Cosmetology Instructor IV

Advanced concepts of instruction in a cosmetology program. Topics include demonstration, development, and implementation of advanced evaluation and assessment techniques. Two lecture hours, six lab hours per week.
Credit: 4 semester hours

CSME 2445 Instructional Theory and Clinic Operation

An overview of the objectives required by the Texas Department of Licensing and Regulation Instructor Examination. Two lecture hours, six lab hours per week.
Credit: 4 semester hours

CSME 2449 Cosmetology Instructor III

Presentation of lesson plan assignments and evaluation techniques. Two lecture hours, six lab hours per week.
Credit: 4 semester hours

CSME 2541 Preparation for the State Licensing Examination

Preparation for the state licensing examination. Theory, techniques, and application relating to the curriculum for the completion of the T.C.C. written and practical exam. Three lecture hours, five lab hours per week.
Credit: 5 semester hours

Criminal Justice

CJCR

Instruction on firearm safety, cleaning, and care techniques, proper shooting principles, and proficiency with a handgun and shotgun. One lecture hour per week.
Credit: 1 semester hour

CJLE 1249 Intermediate Arrest, Search and Seizure

Probable cause; detention and arrest; exceptions to search warrant requirements; principles of preparing valid search warrants; pretrial suppression hearings; and civil liability for improper arrests, searches, and seizures. Three lecture hours per week.
Credit: 3 semester hours

CJLE 1333 Traffic Law and Investigations

Instruction in the basic principles of traffic control, traffic law enforcement, court procedures and traffic law Emphasis on the need for a professional approach in dealing with traffic law violators and the police role in accident investiga6 (f)6.1 (f)6 (i)12.1 (c).7 (Tl)10.9i6 (i)1scub-6.3 (f t)-2.7 (raffic)-196f6.3 flo(i

A study of the 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. Three lecture hours per week.
Credit: 3 semester hours

CJSA 1322/ CRIJ 1301* Introduction to Criminal Justice

History and philosophy of criminal justice and ethical considerations; crime defined; its nature and impact; overview of criminal justice system; law enforcement court system; prosecution and defense. Trial process; corrections. Three lecture hours per week.
Credit: 3 semester hours

CJSA 1325 Criminology

Current theories and empirical research pertaining to crime and criminal behavior and its causes, methods of prevention, systems of punishment and rehabilitation. Three lecture hours per week.
Credit: 3 semester hours

CJSA 1327 /CRIJ 1310* Fundamentals of Criminal Law

A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties, using Texas statutes as illustrations; criminal responsibility. Three lecture hours per week.
Credit: 3 semester hours

CJSA 1342/ CRIJ 2314* Criminal Investigation

Investigative theory; collection and preservation of evi-6.1 (aj)10 ig(n)2.5 (c)-1.6 (e)-2.8 (p;2or7.8 (s6IJ)9.2 (2)12lnT

CJSA 1393 Special Topics in Criminal Justice

Topics address recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Topics may include but are not limited to Spanish for Law Enforcement and Forensic Psychology. Three lecture hours per week.
Credit: 3 semester hours

CJSA 2300 /CRIJ 2323* Legal Aspects of Law Enforcement

Police authority; responsibilities; constitutional constraints; laws of arrest, search and seizure; police liability. Three lecture hours per week.
Credit: 3 semester hours

5 (re)-ekkyreure; law ot,ueeyu(t)-2.7 (i)1.5 (re)-.2 (e)82.8 (leI.8 (lu)2.5 (7 (y)-4.lu)2.5 (re)-2.7-6.4 (n)2.5 (s)- 1 ()-4.5 (law)[Th)5.

eCred 3tre ster hours

Psychology of learning and success. Examines factors that underlie learning, success, and personal development in higher education. Topics covered include information processing, memory, strategic learning, self-regulation, goal setting, motivation, educational and career planning, and learning styles. Techniques of study such as time management, listening and note taking, text marking, library and research skills, preparing for examinations, and utilizing learning resources are covered. Includes courses in college orientation and developments of students' academic skills that apply to all disciplines. One lecture hour per week.
Credit: 1 semester hours

Developmental English

DERW 0302 Developmental Integrated Reading and Writing

Integration of critical reading and academic writing skills. Will not count toward a degree. Three lecture hours per week.
Credit: 3 semester hours

DERW 0303 Developmental Integrated Reading and Writing

Integration of critical reading and academic writing skills. Successful completion of this course fulfills TSI requirements for reading and/or writing. Will not count toward a degree. Three lecture hours per week.
Credit: 3 semester hours

DESL 0301 Developmental ESL Oral Communication

Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts. Will not count toward a degree. Three lecture hours per week.
Credit: 3 semester hours

DENG 0311 Developmental Composition for Non-Native Speakers

Principles and techniques of composition and reading. Open only to non-native speakers. Will not count toward a degree. Does not necessarily result in transferable credit. Three lecture hours per week.
Credit: 3 semester hours

Developmental Mathematics

DMAT 0313 Basic Developmental STEM Algebra

This course is intended for STEM majors only with a TSI score below the requirements for placement into the College Algebra co-requisite (DMAT 0314 + MATH 1314). Topics include order of operations, solving [illegible]
/Artifact <

DRAM 1330 Stagecraft I*

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. Three lecture hours, three lab hours per week.
Credit: 3 semester hours

DRAM 1341 Stage Makeup*

Design and execution of makeup for the stage performer. Includes discussion of makeup principles and practical experience of makeup application. Three lecture hours, three lab hours per week.
Credit: 3 semester hours

DRAM 1351 Acting I*

An introduction to the fundamental principles and tools of acting as used in auditions, rehearsals, and performances. This may include ensemble performing, character and script analysis, and basic theater terminology. This exploration will emphasize the development of the actor's instrument: voice, body and imagination. Three lecture hours, three lab hours per week.
Credit: 3 semester hours

DRAM 1352 Acting II*

Exploration and further training within the basic principles and tools of acting, including an emphasis on critical analysis of oneself and others. The tools include ensemble performing, character and script analysis, and basic theater terminology. This will continue the exploration of the development of the actor's instrument: voice, body and imagination. Three lecture hours, three lab hours per week.
Credit: 3 semester hours
Prerequisite: DRAM 1351

DRAM 2120 Theater Practicum III*

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. Six lab hours per week.
Credit: 1 semester hour
Prerequisite: Theater scholarship or permission of the instructor

DRAM 2121 Theater Practicum IV*

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. Six lab hours per week.
Credit: 1 semester hours
Prerequisite: Theater scholarship or permission of the instructor

DRAM 2331 Stagecraft II*

Continued study and application of 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. Three lecture hours, three lab hours per week.
Credit: 3 semester hours
Prerequisite: DRAM 1330

DRAM 2336 Voice for the Actor*

Principles, practices, and exercises in awareness, relaxation, freedom, flexibility, and expressiveness in the actor's vocal instrument.
Credit: 3 semester hours

DRAM 2366 Film Appreciation*

Survey and analyze cinema including history, film techniques, production procedures, selected motion pictures, and cinema's impact on and reflection of society. Three lecture hours per week.
Credit: 3 semester hours

Economics

ECON 1301 Introduction to Economics*

A survey of microeconomic and macroeconomic principles for non-business majors. Microeconomic topics will include supply and demand, consumer behavior, price and output decisions by firms under various market structures, factor markets, market failures, international trade, and exchange rates. Macroeconomic topics will include national income, unemployment, inflation, business cycles, aggregate supply and demand, monetary and fiscal policy, and economic growth. (This course is designed for non-business, economics, or finance majors and will not replace ECON 2301 or ECON 2302. Three lecture hours per week
Credit: 3 semester hours

ECON 2301 Principles of Macroeconomics*

An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy. Three lecture hours per week.
Credit: 3 semester hours

ECON 2302 Principles of Microeconomics*

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade. Three lecture hours per week.
Credit: 3 semester hours

Education

EDUC 1100 Learning Framework*

A study of the: research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level

of field experience in P-12 classrooms with special populations. Three lecture hours; one lab hour per week.
Credit: 3 semester hours
Prerequisite: EDUC 1301

Engineering

ENGR 1201 Introduction to Engineering

An introduction to the engineering profession with emphasis on technical communication and team-based engineering design. Two lecture hours; two lab hours per week.
Lab project material fee charged.
Credit: Two semester hours
Pre-requisite: Math 1314 College Algebra or equivalent

ENGR 2301 Engineering Mechanics – Statics

Basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia. Three lecture hours per week.
Credit: Three semester hours
Pre-requisite: PHYS 2425 University Physics I
Pre/Co-requisite: MATH Calculus II

ENGR 2302 Engineering Mechanics – Dynamics

Basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies, and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems. Three lecture hours per week.
Credit: Three semester hours
Pre-requisite: ENGR 2301 Engineering Mechanics – Statics

ENGR 2308 Engineering Economics

Methods used for determining the comparative financial desirability of engineering alternatives. Provides the student with the basic tools required to analyze engineering alternatives in terms of their worth and cost, an essential element of engineering practice. The student is introduced to the concept of the time value of money and the methodology of basic engineering economy techniques. The course will address some aspects of sustainability and will provide the student with the background to enable them to pass the Engineering Economy portion of the Fundamentals of Engineering exam.

including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Credit: 3 semester hours
Prerequisite: Must be college-ready in reading and writing.

ENGL 1302 Composition II*

Creu a

The study of one or more literary genres including, but not limited to, poetry, fiction, drama, and film.
Prerequisites: ENGL 1301, ENGL 1302

ENGL 2342 Forms of Literature I*
The study of one or more literary genres, including but not limited to poetry, fiction, drama, and film. For repeatability purposes, students who take ENGL 2342 should not also take ENGL 2341. Three lecture hours per week.
Credit: 3 semester hours
Prerequisites: ENGL 1301, ENGL 1302

ENGL 2389 Academic Cooperative*
An instructional program designed to integrate on-campus study with practical hands-on work experience. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of English language and literature. Three lecture hours per week.
Credit: 3 semester hours
Prerequisites: ENGL 1301, ENGL 1302

Fire Science

FIRS 1301 Firefighter Certification I
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. Two lecture hours, two lab hours per week.
Credit: 3 semester hours

FIRS 1313 Firefighter Certification III
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. Three lecture hours, two lab hours per week.
Credit: 3 semester credit hours

FIRS 1319 Firefighter Certification IV
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, III, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. Two lecture hours, two lab hours per week.
Credit: 3 semester credit hours

FIRS 1323 Firefighter Certification V
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, III, IV, VI, and VII to satisfy the Texas Commission on Fire

Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. Two lecture hours, two lab hours per week.
Credit: 3 semester credit hours

FIRS 1329 Firefighter Certification VI

One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, III, IV, V, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. Two lecture hours, two lab hours per week.
Credit: 3 semester hours

FIRS 1407 Firefighter Certification II

One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. Three lecture hours, two lab hours per week.
Credit: 4 semester credit hours

FIRS 1433 Firefighter Certification VII

One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, III, IV, V, and VI to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. Three lecture hours, two lab hours per week.
Credit: 4 semester hours

EMSP 2237 Emergency Procedures

Instruction in a laboratory environment concentrating on practical medical skills and critical thinking abilities. Topics include a variety of skills appropriate to the student's training level. Required verifications of specific skills may be included. Two lecture hours, one lab hour per week.
Credit: 2 semester hours

EMSP 1501 Emergency Medical Technician – Basic

Preparation for certification as an Emergency Medical Technician (EMT) - Basic. Includes all the skills necessary to provide emergency medical care at a basic life support level with an emergency service or other specialized services. Three lecture hours, eight lab hours per week.
Credit: 5 semester hours

EMSP 1261 Clinical – Emergency Medical – Technology/Technician

A health-related work-

FIRS 2344 Driver/Operator-Pumper

Meets curriculum requirements of the Texas Commission on Fire Protection (TCFP) for Driver/Operator-Pumper. Three lecture hours, one lab hour per week.
Credit: 3 semester hours

FIRT 1303 Fire and Arson Investigator I

Basic fire and arson investigation practices. Emphasis on fire behavior principles related to fire cause and origin determination. Three lecture hours per week.
Credit: 3 semester hours

FIRT 1307 Fire Prevention Codes and Inspection

Local building and fire prevention codes. Fire prevention inspections, practices, and procedures. Three lecture hours per week.
Credit: 3 semester hours

FIRT 1309 Fire Administration I

Introduction to the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasis on fire service leadership from the perspective of the company officer. Three lecture hours per week.
Credit: 3 semester hours

FIRT 1315 Hazardous Materials I

The chemical characteristics and behavior of various materials. Storage, transportation, handling hazardous emergency situations, and the most effective methods of hazard mitigation. Three lecture hours per week.
Credit: 3 semester hours

FIRT 1319 Firefighter Health and Safety

Firefighter occupational safety and health in emergency and non-emergency situations. Three lecture hours per week.
Credit: 3 semester hours

FIRT 1327 Building Construction in the Fire Service

Components of building construction that relate to life safety. Includes relationship of construction elements and building design impacting fire spread in structures. Three lecture hours per week.
Credit: 3 semester hours

FIRT 1329 Building Codes and Construction

Examination of building codes and requirements, construction types, and building materials. Includes walls, floorings, foundations, and various roof types and the associated dangers of each. Three lecture hours per week.
Credit: 3 semester hours

FIRT 1333 Fire Chemistry I

FIRT 2307 Fire Instructor II

Development of individual lesson plans for a specific topic including learning objectives, instructional aids, and evaluation instruments. Includes techniques for supervision and coordination of activities of other instructors to meet Texas Commission on Fire Protection requirements for Fire Instructor II certification. Three lecture hours per week.
Credit: 3 semester hours

FIRT 2309 Firefighter Strategies and Tactics I

Analysis of the nature of fire problems and selection of initial strategies and tactics including an in-depth study of efficient and effective use of manpower and equipment to mitigate the emergency. Three lecture hours per week.
Credit: 3 semester hours

French

FREN 1411 Beginning French I*

Fundamental skills in listening comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture. Three lecture hours, one lab hour per week.
Credit: 4 semester hours

FREN 1412 Beginning French II*

Fundamental skills in listening, comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture. Three lecture hours, one lab hour per week.
Credit: 4 semester hours
Prerequisite: FREN 1411

FREN 2311 Intermediate French I*

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture. Three lecture hours per week.
Credit: 3 semester hours
Prerequisite: FREN 1412 or advanced standing by examination

FREN 2312 Intermediate French II*

Review and application of skills in listening comprehension, speaking, reading, and writing. Emphasizes conversation, vocabulary acquisition, reading, composition, and culture. Three lecture hours per week.
Credit: 3 semester hours
Prerequisite: FREN 2311

Geology

GEOL 1403 Physical Geology*

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 fie

GOVT 2306 Texas Government*

Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas. Three lecture hours per week.
Credit: 3 semester hours

History

HIST 1301 United States History I* (United States History to Reconstruction)

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. Three lecture hours per week.
Credit: 3 semester hours

HIST 1302 United States History II* (United States History from Reconstruction)

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,

HART 2436 Air Conditioning Troubleshooting

An advanced course in application of troubleshooting principles and use of test instruments to diagnose air conditioning and refrigeration components and system problems including conducting performance tests. Two hours lecture, four hours lab per week.
Credit: 4 semester hours
Prerequisite: HART 2441 or approval of instructor

HART 2438 Air Conditioning Installation and Start Up

A study of air conditioning system installation, refrigerant piping, condensate disposal, and air cleaning equipment with emphasis on startup and performance testing. Two hours lecture, four hours lab per week.
Credit: 4 semester hours
Prerequisite: HART 1407 or approval of instructor

HART 2441 Commercial Air Conditioning

A study of components, applications, and installation of air conditioning systems with capacities of 25 tons or less. Two hours lecture, four lab hours per week.
Credit: 4 semester hours
Prerequisite: HART 1407

HYDR 1445 Hydraulics and Pneumatics

Fundamentals of hydraulics and types of hydraulic pumps, cylinders, valves, motors, and related systems including operations, maintenance, and system analysis. Two hours lecture, four lab hours per week.
Credit: 4 semester hours

IEIR 1410 Motor Controls

General principles and fundamentals of electrical controls and control components including starters, troubleshooting techniques, various protective devices, schematics, and diagrams. Two hours lecture, four lab hours per week.
Credit: 4 semester hours
Prerequisite CETT 1402

INMT 2345

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. Two hours lecture, four lab hours per week.
Credit: 3 semester hours

PFPB 1421 Plumbing Maintenance and Repair

Instruction in the practices and procedures employed by a plumber in the usual and unusual service work in the field of residential plumbing repairs including public relations. Two hours lecture, four lab hours per week.
Credit: 4 semester hours

Instruction and participation in folk, social, tap, or other dance forms. Enrollment limited to the Wrangler Belles. May be repeated for credit. Three lab hours per week.
Credit: 1 semester hour

KINE 2356 Care and Prevention of Athletic Injuries*

Prevention and care of athletic injuries with emphasis on qualities of a good athletic trainer, avoiding accidents and injuries, recognizing signs and symptoms of specific sports injuries and conditions, immediate and long-term care of injuries, and administration procedures in athletic training. Three lecture hours per week.
Credit: 3 semester hours

MATH 1332 Contemporary Mathematics (Quantitative Reasoning)*

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. Additional topics may be covered. This course does not apply toward the Associate of Science Degree. Three lecture hours per week.
Credit: 3 semester hours
Prerequisite: Meet TSI college-readiness standard for Mathematics

MATH 1342 Elementary Statistics*

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Utilization of appropriate technology is required. This course may not apply toward a major in math. Three lect.1 (d)5.36t(y)9.3 (b)5

Credit: 3 seme

Prerequisite: 91

indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas. Four lecture hours per week.
Credit: 4 semester hours
Prerequisite: Meet TSI college-readiness standard for Mathematics and High School Algebra I, II, & Pre-calculus or MATH 1314 and MATH 1316**/2412
**MATH 1316 not offered every year.

MATH 2414 Calculus II with Analytical Geometry*

Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; numerical methods; indeterminate forms; improper integrals; sequences and series. Four lecture hours per week.
Credit: 4 semester hours
Prerequisite: MATH 2413

MATH 2415 Calculus III with Analytical Geometry*

Multivariable calculus, including vectors and vector-valued functions, partial differentiation, gradient, Lagrange multipliers, multiple integrals, and Jacobians; application of the line integral, including Green's Theorem, the Divergence Theorem, and Stokes' Theorem. Four lecture hours per week.
Credit: 4 semester hours
Prerequisite: MATH 2414

Medical Assisting

FMLD 1345 Life Span Growth and Development

A study of the interrelationship of physical, emotional, social, and mental factors of growth and development throughout the life span. Only offered in the spring semester. Three lecture hours per week.
Credit: 3 semester hours

HITT 1313 Coding and Insurance

An overview of skills and knowledge in ICD and CPT coding and claims forms for reimbursement of medical services. Three lecture hours per week.
Credit: 3 semester hours
Spring Semester
Pre-requisite: MDCA 1313 or MCDA 1409

MDCA 1254 Medical Assisting Credentialing Exam Review

A preparation for one of the National Commission Certifying Agencies (NCCA) recognized credentialing exams. Two lecture hours per week.
Credit: 2 semester hours

MDCA 1305 Medical Law and Ethics

Instruction in principles, procedures, and regulations involving legal and ethical relationships among physicians, patients and medical assistants in ambulatory care settings. Three lecture hours per week.

Credit: 3 semester hours

MDCA 1310 Medical Assistant Interpersonal and Communications and Skills

Emphasis on the application of basic psychological principles and the study of behavior as they apply to special populations. Topics include procedures for self-understanding and social adaptability in interpersonal communication with patients and co-workers in an ambulatory care setting. Three lecture hours per week.
Credit: 3 semester hours

MDCA 1313 Medical Terminology

Credit: 4 semester hours

MDCA 1452 Medical Assistant Laboratory Procedures

A select chamber vocal ensemble. Repertoire may include chamber music, madrigals, show Vocal Ensemble numbers. Students must be prepared for frequent performances and touring, including dance. May be repeated for credit. Two lab hours per week.
Credit: 1 semester hour
Prerequisite: Audition and instructor permission

MUEN 1192 Guitar Class I*

Class instruction in the fundamental techniques of playing and teaching guitar.
Credit: 1 semester hour

MUSI 2312 Music Theory IV*

Continuation of advanced harmony part writing and keyboard analysis and writing of more advanced tonal harmony including chromaticism and extended tertian structures. Introduction of 20th century compositional procedures and survey of the traditional large forms of composition. Correlated study at the keyboard. Correlates with MUSI 2117, Advanced Sight-singing and Aural Skills. Three lecture hours per week.
Credit Hours: 3 semester hours
Co-requisite: MUSI 2117

Nursing

HPRS 2221 Medical Law and Ethics for Health Professionals

Principles, procedures, and regulations governing the legal and ethical relationships among physicians, patients, and health care professionals. Includes current ethical issues related to the various healthcareprofessions and patient confidentiality. Two lecture hours per week.
Credit: 2

HPRS 2301 Pathophysiology

Study of the pathology an dgeneral health management of diseases and injuries across the life span. Topics include etiology, symptoms, and the physical and psychological reactions to diseases and injuries.
Credit: 3

HPRS 2332 Health Care Communications

Methods of communication with clients, client support groups, health care professionals, and external agencies.
Credit Hours: 3

NURA 1301 Nurse Aide for Health Care

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. 60 lecture hours and 40 clinical hours.
Credit Hours: 3

RNSG 1118--Transition to Professional Nursing Competencies

Transition to professional nursing competencies in the care of patients throughout the lifespan. Validates proficiency in psychomotor skills and clinical reasoning in the performance of nursing procedures related to the concepts of: clinical judgment, comfort, elimination, fluid and electrolytes, nutrition, gas exchange, safety, functional ability, immunity, metabolism, mobility, and tissue integrity. Includes health assessment and medication administration. This course lends itself to a concept-based approach. One lecture hour, one laboratory hour per week.
Credit Hours: 1
Co-Requisites: RNSG 1128, 1361, 1424, 1331

U D 8 i t 2 - 2

RNSG 1128-- Introduction to Health Care concepts

An introduction to concept-based learning with emphasis on selected pathophysiological concepts with nursing applications. Concepts include acid-base balance, fluid and electrolytes, immunity, gas exchange, perfusion, metabolism, coping, and tissue integrity. This course lends itself to a concept-based approach. One lecture hour per week.
Credit Hours: 1
Co-Requisites: RNSG 1118, 1125, 1361, 1424, 1331

RNSG 1137– Professional Nursing Concepts III

Application of professional nursing concepts and exemplars within the professional nursing roles.
Utilizes concepts of clinical judgment, ethical-legal, evidenced-based practice, patienen4p1p. (n4p1) (n)-0.1Tc 0.00Tc 0.0

introduces health policy. Incorporates concepts into role development of the professional nurse. This course lends itself to a concept-based approach. Two lecture hours per week.
Credit Hours: 2
Co-Requisites: RNSG 2539, 2361, 2230

RNSG 2360*, 2361* – CLINICALS ASSOCIATED WITH ALL THREE SEMESTERS OF NURSING CLASSES

These are health-related work-based learning experiences that enable the student to apply specialized occupation theory, skills, and concepts. Direct supervision is provided by the clinical professional. Emphasis is placed on application of advanced concepts and skills for development of the associate degree nurse role with care of person and families experiencing chronic illness/disorders, acute exacerbation of chronic illness, and long-term health care needs in a variety of acute care, long-term and extended care settings, including the home and community. These settings provide opportunities to explore the realities of the level of responsibility and accountability required for registered nursing practice. Nine clinical hours per week.
Credit Hours Each: 3

RNSG 2539– Health Care Concepts IV

In depth coverage of advanced health care concepts with nursing application through selected exemplars. Concepts include acid-based, altered thought processes, clotting, diversity, fluid and electrolytes, gas exchange, metabolism, nutrition, perfusion, stress, tissue integrity, and violence. Continuing development of clinical judgment with integration of all program concepts. Four lecture hours, four laboratory hours per week.
Credit Hours: 5
Co-Requisites: RNSG, 2238, 2361, 2230

VNSG 1160 Clinical I

A health-r

PHRA 1441 Pharmacy Drug Therapy and Treatment

Study of therapeutic agents, their classifications, properties, actions, and effects on the human body and their role in the management of disease. Four hours lecture per week.
Credit: 4 semester hours

PHRA 1445 Compounding Sterile Preparations

The process of compounding sterile preparations and aseptic technique we ts r2.3 (it)-2. r (s)-1.3 s ela0.004 Tc 1.002 Tw 1.9

Credit: 3 semester hours

PHIL 2306 Introduction to Ethics*

The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals, and standards of value. Three lecture hours per week
Credit: 3 semester hours

Physics

PHYS 1317 Physical Science II*

Course designed for non-science majors that surveys topics from physics, chemistry, geology, astronomy, and meteorology. Three lecture hours per week.
Credit: 3 semester hours
Prerequisite: Meet TSI college-readiness standard for Mathematics.

PHYS 1401 College Physics I*

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. Three lecture hours, four laboratory hours per week.
Credit: 4 semester hours
Prerequisite: MATH 2412 or Math 1316**
**MATH 1316 not offered every year.

PHYS 1402 College Physics II*

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving. Three lecture hours, four laboratory hours per week.
Credit: 4 semester hours
Prerequisite: PHYS 1401 and MATH 2412 or MATH 1316

PHYS 1403 Stars and Galaxies*

Study of stars, galaxies, and the.6 (n)2.23u3lomST-3 (c)-1.9 (t4 ap)2.rcuidmager hc(s)-1.3 (,)9..2 (ar( )10.6 6 (p)2.3 (h)2.2 5

Credit: 4 semester hours
Prerequisite: Meet TSI college-readiness standard for Mathematics.

law, deceptive trade practices, listing or buying procedures, and the disclosure of an agency. Three lecture hours per week
Credit: 3 semester hours

RELE 2331 Real Estate Brokerage

A study of law of agency, planning and organization, operational policies and procedures, recruiting, selection and training of personnel, records and control, and real estate firm analysis and expansion criteria. Three lecture hours per week.
Credit: 3 semester hours

RELE 2389 Internship - Real Estate

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.
Credit: 3 semester hours

Respiratory Care/Therapy

RSPT 1141 Respiratory Home Care/Rehabilitation

A study of respiratory home care/rehabilitation equipment, procedures, and patient education. One hour lecture per week.
Credit: 1 semester hour
Pre-requisites: RSPT 2210, RSPT 1340, RSPT 2317, RSPT 2266

RSPT 1160 Clinical/Respiratory Care

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. Six hours clinical per week.
Credit: 1 semester hours
Co-requisite RSPT 1201, RSPT 1329

RSPT 1201 Introduction to Respiratory Care

An introduction to the field of respiratory care. Topics include the history of respiratory care, hospital organization, medical malpractice, ethics, vital signs, body mechanics, cardiopulmonary assessment, infection control. Two lecture hours and one hour lab hour per week.
Credit: 2 semester hour
Co-requisite: RSPT 1160, RSPT 1329

RSPT 1207 Cardiopulmonary A&P

Anatomy and Physiology of the cardiovascular and pulmonary systems. One hour lecture, four hour lab per week.
Credit: 2 semester hours

RSPT 1240 Advanced Cardiopulmonary Anatomy and Physiology

Provides an advanced presentation of anatomy and physiology of the cardiovascular and pulmonary system. Two hours lecture, one hour lab per week.

Theory of clinical simulation examinations. Includes construction types, scoring, and mechanics of taking the computerized simulation examination. One hour lecture, four hours lab per week.
Credit: 2 semester hour
Pre-requisites: RSPT 2267, RSPT 1141, RSPT 1329, RSPT 1331, RSPT 1240, RSPT 2210, RSPT 1101, RSPT 2317, RSPT 2314, RSPT 2353, RSPT 2305

RSPT 2266 Practicum—Respiratory Care

Practical, general workplace training supported by an individualized learning plan developed by the employer, college and student. Sixteen hours clinical experience per week.
Credit: 2 semester hours
0.6 (23)11 (05)]TJ0 Tc 0 Tw 16.185 0 Td( )TjEMC /P1 Tc 0r week.
8 (S)1.6 (P(S)1.6 (P(S)1.6)11 (1.6 60)-6.6 (u)2.3 (r)11 (le)- (,)3.971r1 Tf 8.5 ,2,1 a6 (m)-9.3-11.2 (7 >>SS-0.6 (re)-3 (d)2.3 (it)-2.9 (:)-4.8 (0.6

Sociology

SOCI 1301 Introductory Sociology*

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. Three lecture hours per week.
Credit: 3 semester hours

SOCI 1306 Social Problems*

Application of sociological principles and theoretical perspectives to major social problems in contemporary society such as inequality, crime and violence, substance abuse, environmental issues, deviance , or family problems. Three lecture hours per week.
Credit: 3 semester hours

SOCI 2301 Marriage and the Family*

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. Three lecture hours per week.
Credit: 3 semester hours

Spanish

SPAN 1411 Beginning Spanish I*

Basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level. Three lecture hours, one lab hour per week.
Credit: 4 semester hours

SPAN 1412 Beginning Spanish II*

Continued development of basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level. Three lecture hours, one lab hour per week.
Credit: 4 semester hours
Prerequisite: SPAN 1411

SPAN 2311 Intermediate Spanish I*

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Three lecture hours per week.
Credit: 3 semester hours
Prerequisite: SPAN 1412 or advanced standing by examination

SPAN 2312 Intermediate Spanish II*

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Three lecture hours per week.
Credit: 3 semester hours
Prerequisite: SPAN 2311

Speech

SPCH 1315 Public Speaking*

Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations. Three lecture hours per week.
Credit: 3 semester hours

SPCH 1321 Business & Professional Communication*

Study and application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams and technologically mediated formats. Three lecture hours per week.
Credit: 3 semester hours

SPCH 2333 Discussion and Small Group Communication*

Discussion and small group theories and techniques as they relate to the group process and interaction. Three lecture hours per week.
Credit: 3 semester hours
Prerequisite: ENGL 1301 or permission of the course instructor, or Division Chair.

Surgical Technology

HPRS 2200 Pharmacology for Health Professions

A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages.
Two lecture hours per week
Credit: 2 Semester Hours

HPRS 2201 Pathophysiology

Study of the pathology and general health management of diseases and injuries across the life span. Topics include etiology, symptoms, and the physical and psychological reactions to diseases and injuries.
Two lecture hours per week
Credit: 2 Semester Hours

HPRS 2221 Medical Law and Ethics for Health Professionals

Principles, procedures, and regulations governing the legal and ethical relationships among physicians, patients, and health care professionals. Includes current ethical issues related to the various healthcare professions and patient confidentiality. Two lecture hours per week.

Credit: 2 Semester Hours

SRGT 1244 Technological Sciences for the Surgical Technologist

Specialized surgical modalities covered include endoscopy, microsurgery, therapeutic surgical energies, and other integrated science technologies. Two lecture hours per week.
Credit: 2 Semester Hours

SRGT 1260 Clinical I Surgical Technology/Technologist

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. Eight clinical hours per week (92 clinical hours total.)
Credit: 2 Semester Hours

SRGT 1405 Introduction to Surgical Technology

Orientation to surgical technology theory, surgical pharmacology and anesthesia, technological sciences, and patient care concepts. Three lecture hours and three lab hours per week.
Credit: 4 Semester Hours

SRGT 1409 Fundamentals of Perioperative Concepts and Techniques

In-depth coverage of perioperative concepts such as aseptic principles and practices, infectious processes, wound healing, and creation and maintenance of the sterile field. Three lecture hours and four lab hours per week.
Credit: 4 semester hours

SRGT 1441 Surgical Procedures I

Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the general, OB/GYN, genitourinary, otorhinolaryngology, and orthopedic surgical specialties incorporating instruments, equipment, and supplies required for safe patient care. Two lecture hours and four lab hours per week.
Credit: 4 Semester Hours

SRGT 1442 Surgical Procedures II

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. Four lecture hours, one lab hour per week.
Credit: 5 Semester Hours

SRGT 2130 Professional Readiness

Overview of professional readiness for employment, attaining certification, and maintaining certification status. A capstone experience may be included. One lecture hour per week.
Credit: 1 semester hour

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. Sixteen (16) clinical hours total)
Credit: 2 Semester Hours

SRGT 2362 Clinical II Surgical Technology/Technologist

A health –related work-based learning experience that enables the students to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional. Twelve clinical hours per week.
Credit: 3 semester hours

SRGT 2460 Clinical III-Surgical Technology/Technologist

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. Twenty-four clinical hours per week (240 clinical hours total).
Credit: 4 Semester Hours

SRGT 2560 Clinical III – Surgical Technology/Technologist

A health-related work-based learning experience that enables the students to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional. Twenty-four clinical hours per week (240 Clinical Hours total).
Credit: 5 Semester hours

VNSG 1420 Anatomy and Physiology for Allied Health

Study of the structure (anatomy) and function (physiology) of the human body, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Four lecture hours per week.

Vocational Nursing

See Nursing for a complete listing of courses.

Welding

WLDG 1317 Introduction to Layout and Fabrication

A fundamental course in layout and fabrication related to the welding industry. Major emphasis on structural shapes and use in construction. Two lecture hours, two lab hours per week.
Credit: 3 semester hours

WLDG 1337 Intro to Welding Metallurgy

A study of ferrous and nonferrous metals from the ore to the finished product. Emphasis on metal alloys, heat treating, hard surfacing, welding techniques, forging, foundry processes, and mechanical properties of metal including hardness, machinability, and ductility. Two hours lecture, two lab hours per week.
Credit: 3 semester hours

WLDG 1412 Introduction to Flux Cored Arc Welding (FCAW)

An overview of terminology, safety procedures, and equipment set-up. Practice in performing various joints using Flux Cored Arc Welding (FCAW) equipment. Two hours lecture, four lab hours per week.
Credit: 4 semester hours

WLDG 1413 Introduction to Blueprint Reading for Welders

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. Two hours lecture, four lab hours per week.
Credit: 4 semester hours

WLDG 1417 Introduction to Layout and Fabrication

A fundamental course in layout and fabrication related to the welding industry. Major emphasis on structural shapes and use in construction. Two lecture hours, four lab hours per week.
Credit: 4 semester hours

WLDG 1421 Introduction to Welding Fundamentals

An introduction to the fundamentals of equipment used in oxyacetylene and arc welding, including welding and cutting safety, basic oxyacetylene welding and cutting, basic arc welding processes and basic metallurgy. Two lecture hours, four lab hours per week.
Credit: 4 semester hours

WLDG 1430 Introduction to Gas Metal Arc Welding (GMAW)

A study of the principles of gas metal arc welding, set up and use of Gas Metal Arc Welding (GMAW) equipment, and safe use of tools/equipment. Instruction in various joint designs. Two lecture hours, four lab hours per week.
Credit: 4 semester hours
Prerequisites: WLDG 1421 Intro to Welding Fundamentals or approval of instructor