

# Degree and Certificate Requirements

## Degrees Offered

Central Texas College confers the Associate of Arts, the Associate of Science, the Associate of Applied Science, or the Associate of General Studies degrees to students who have successfully completed the minimum and specific degree requirements for graduation. To earn an associate degree, you must complete the specific degree requirements in the curriculum plan for your major field of study as shown in the programs of study and meet minimum requirements for each degree. Each degree candidate must earn a minimum of 25 percent of the coursework in the degree from Central Texas College; have an overall 2.0 grade point average and a minimum CTC 2.0 grade point average; and meet state, institutional, licensure and other agency rules as applicable. All CTC courses completed at the time the degree is conferred are calculated in the CTC grade point average even if the courses were not used to meet specific degree requirements. You are responsible for applying and paying the appropriate graduation fee by the application deadline. Refer to the *Graduation* section in the catalog for information on filing the degree application.

To be eligible for a second associate's degree, a student must complete an additional 25 percent residency from Central Texas College and meet all other degree requirements above. The additional 25 percent residency must be in coursework that was not used for the first associate's degree or for a certificate of completion.

## Developmental Studies

Developmental studies courses offered by Central Texas College are designed to provide a means for students to remove specific deficiencies or provide refresher coursework before enrolling in academic, occupational, or technical programs.

Students on academic probation or suspension may be required to complete developmental studies courses to satisfy probation or suspension readmission requirements.

**NOTE** Developmental studies courses may not be used to satisfy degree requirements, cannot be used to meet the 25 percent residency toward the degree, and cannot be counted in the grade point average at Central Texas College.

## Tech Prep

Central Texas College participates in the Texas Tech-Prep statewide initiative. The Tech-Prep degree curriculum awards credit to entering freshmen whose high school has entered into an articulation agreement with CTC and has a TEA approved articulation plan. Central Texas College will award college credit to those students who have successfully graduated from an approved high school tech-prep graduation plan and have completed six semester hours in residency with a grade of "C" or higher at the Central Campus.

The following Central Texas College associate degree programs are Texas Higher Education Coordinating Board approved and included in the Texas Tech-Prep statewide initiative:

Administrative Secretarial	Diesel Engine Mechanic and Repairer
Agriculture Production	Early Childhood Professions
Agriculture Science	Graphics and Printing
Automotive Mechanic/Repairer	Hospitality Management
Automotive Body Repair	Maintenance Technology/Building Trades
Business Management	Marketing and Sales Management
Computer-Aided Drafting	Nursing
Computer Science	Office Technology
Criminal Justice	Welding

## Certificates of Completion

CTC confers Level I and Level II Certificates of Completion to students who have successfully completed the minimum and specific certificate requirements. To earn a Certificate of Completion, you must earn a minimum of 25 percent of the coursework in the certificate from Central Texas College; have an overall 2.0 grade point average and a minimum CTC 2.0 grade point average; and meet state, licensing, third-party agency and institutional rules as applicable. You are responsible for applying and paying the appropriate graduation fee by the application deadline. Refer to the *Graduation* section in the catalog for information on filing the certificate application.

To be eligible for a second certificate of completion, a student must complete an additional 25 percent residency from Central Texas College and meet all other certificate requirements above. The additional 25 percent residency must be in coursework that was not used in previous certificates or degree awarded.

## Core Curriculum and Field of Study Curriculum

The *Core Curriculum* is the set of courses in liberal arts, humanities, sciences, and political, social and cultural history that undergraduates of a public higher education institution in Texas are required to complete before receiving a bachelor's degree (Title 19, Chapter 5, Subchapter S, Rule 5.400). Students seeking a CTC Associate of Arts or Associate of Science degree are required to complete a 42-hour core curriculum. Students who successfully complete the core curriculum may transfer the block of courses to another Texas public institution of higher education and substitute the block for the receiving institution's core curriculum. Students who do not complete the 42-hour core curriculum may still transfer those courses successfully completed to another public college or university in Texas. They will generally be required to complete the remainder of the courses in the receiving institution's core curriculum.

When students successfully complete the 42-hour core curriculum at CTC, their transcripts will reflect "*Core Curriculum Completed.*" For a list of the courses in the core curriculum, refer to the *Programs of Study* section of this Catalog.

The *Field of Study Curriculum* is a set of courses that will satisfy the lower-division academic requirements for a bachelor's degree in a specific academic area at a general academic teaching institution. The course credits of specific approved curricula will apply toward bachelor degree requirements if the courses are a part of the student's degree requirements at the senior institution.

To facilitate transfer of freshman- and sophomore-level core and field of study courses, a Texas Common Core Numbering System (TCCNS) exists. These lower-division courses have a TCCNS number and are listed in the *Lower-Division Academic Course Guide Manual*, an official publication of the Texas Higher Education Coordinating Board, Academic Affairs and Research Division.

It is important to know what courses are recognized as common at the school to which you plan to transfer. You should declare a major before attaining sophomore standing at CTC. Each Texas public community college or university will accept TCCNS courses, provided such credits are within the approved transfer curriculum of the student's declared major field of study at the receiving institution. A change of major may result in loss of credits earned in a previous program.

## Program Listings

Curriculum plans for various degrees and certificates are on the following pages. Designations stated after each degree title reference the degree plan by major code. For example, Business Administration (Associate of Arts Degree), BUSS (major code). The reference facilitates student academic advising. Course descriptions for all courses offered are listed in alpha-numeric order by course prefix. Many of the curricula presented on the following pages have been designed for students who wish to transfer to a senior college or university. Central Texas College counselors and advisors are available to assist you in choosing from these suggested programs or in working out special arrangements to meet particular educational plans. It is your responsibility to monitor program offerings and follow the published degree plan requirements. Any deviations from listed courses must be approved in writing by the department. If you plan to transfer to a senior college or university and are taking courses that lead to an Associate of Arts or an Associate of Science degree, refer to the degree requirements for the AS or AA degrees listed in this catalog.

**NOTE** Although academic counseling is available, it remains your responsibility to determine the major area of study, to verify the required courses and their prerequisites, and to select the senior college or university to which you wish to transfer.

## Program and Course Availability

Programs of study displayed in this catalog are offered when sufficient interest indicates a level of enrollment required for program continuation. To enter specific programs of study, seek confirmation of program availability. There is no guarantee that a specific course will be offered at any given time (either day time or evenings). It is your responsibility to complete the required courses when they are offered. Not all courses are available every semester because of the specialized nature of the course content, equipment requirements, or facility availability. Consult the Schedule Bulletin published each semester or term for courses offered. Central Texas College reserves the right to cancel offered courses when insufficient enrollment or other circumstances require such action.

## Prerequisite Courses

Be familiar with the course descriptions. If the course description indicates a prerequisite, the prerequisite should be met before registering for the advanced course. For example, you are required to successfully complete ENGL 1301 Composition I before registering for ENGL 1302 Composition II.

If you cannot schedule prerequisites, obtain prior approval to enroll in these courses from the Department Chair. Failure to obtain approval could result in loss of credit toward your degree.

## Semester Credit Hours

The three numbers following (to the right of) the course title indicate the: (a) hours per week the class meets for lectures, (b) number of laboratory hours required per week and (c) credit hours awarded for successful completion of the course. One semester hour of credit represents one hour of lecture time per week for 16 weeks; one semester hour of credit also represents two to four hours of laboratory time per week for 16 weeks. Lecture and lab proportions may vary depending on the nature of the course.

For example, BIOL 1406, General Biology I, 3-3-4, has three hours of lecture per week conducted over 16 weeks and three hours of laboratory per week conducted over 16 weeks with four hours of credit awarded for successful completion. This weekly requirement is adjusted to compensate for terms/sessions/semesters with lengths other than 16 weeks. For instance, 3-0-3 for an eight-week term would require six hours of lecture per week and 2-4-3 would require four hours of lecture and eight hours of lab per week.

## Tuition Rebate Program

The State of Texas offers a tuition rebate as an incentive for students to complete their bachelor's degree with no more than three attempted hours above the minimum required for the baccalaureate degree. Students who graduate with a bachelor's degree from a Texas public baccalaureate-granting general academic university may qualify to receive \$1,000 from the university awarding the degree if they meet the criteria listed below.

- Must have enrolled (taken their first course) in a Texas public institution of higher education in Fall 1997 or later;
- Must be a Texas resident and entitled to pay in-state tuition at all times while pursuing the degree;
- Must have taken all coursework at Texas public institutions of higher education;
- Must have received a bachelor's degree from a Texas public university;
- Must have attempted no more than three hours in excess of the minimum number of semester hours required to complete the degree in the catalog under which they graduated. Hours attempted include transfer credits, course credits earned exclusively by examination,\* courses dropped after the official census date, for-credit developmental/remedial courses, optional internship and cooperative education courses, and repeated courses. For students concurrently earning a baccalaureate degree and a Texas teaching certificate, the required teacher education courses shall not be counted to the extent that they are over and above the free electives allowed in the baccalaureate degree program.

\* Due to a recent change in the law, the first nine hours of credit earned by examination (credit earned on the basis of AP courses, CLEP or credit granted for high SAT or ACT scores) does not count as hours attempted. Dual credit courses (courses taken in high school for both high school and college credit) count as hours attempted.

CTC has academic advisors to help students plan their program of study while attending CTC to maximize their chances of qualifying for the rebate when they graduate from a university with a bachelor's degree.

# Programs of Study

AA	Associate of Arts Degree
AS	Associate of Science Degree
AAS	Associate of Applied Science Degree
AGS	Associate of General Studies Degree
CC	Certificate of Completion
CC*	Level I Certificate
CC**	Level II Certificate

## Type of

Degree	Program of Study	Page
	Core Curriculum for Associate of Science (AS) and Associate of Arts (AA)	86

### Associate Degrees of Science and Arts

AS	Agriculture Science	89
AA	Art	89
AS	Biology	89
AA	Business Administration	89
AS	Chemistry	90
AA	Commercial Art	90
AA	Drama	90
AS	Engineering	90
AS	Environmental Science	90
AS	Geology	91
AA	Interdisciplinary Studies	91
AA	Journalism/Communications	91
AS	Mathematics	91
AA	Modern Language	92
AA	Music	92
AA	Radio and Television Broadcasting	92
AA	Social Science	92

### Associate of Applied Science Degrees and Certificates

#### Agriculture

AAS	Agriculture Production Specialization	93
AAS	Equine Management Specialization	94
AAS	Horticulture Development Specialization	95
CC*	Agriculture Technology	96

#### Auto Collision

AAS	Auto Collision Repair	97
CC**	Auto Collision Repair Technician (self-paced, open-entry program)	98
CC*	Mechanical and Electrical (self-paced, open-entry program)	98
CC*	Painting and Refinishing (self-paced, open-entry program)	99
CC*	Structural/Non-Structural Analysis and Damage Repair (self-paced, open-entry program)	99

#### Automotive Mechanic

AAS	Automotive Mechanic/Technician	100
CC**	Automotive Technician (self-paced, open-entry program)	101
CC*	Automotive System Specialist (self-paced, open-entry program)	102
CC*	Automotive Tune-Up Specialist Certificate (self-paced, open-entry program)	102

## **Aviation Science**

AAS	Aviation Science	103
CC*	Aviation Science	104

## **Business Management**

AAS	Business Management	105
CC*	Business Management	106
CC*	Entrepreneurship	106
AAS	Business Management - Marketing and Sales Management Specialization	107
CC*	Marketing and Sales Management	108
AAS	Business Management - Real Estate Sales Agent Specialization	109
CC*	Real Estate Sales Agent	110

## **Computer Science**

AAS	Business Programmer Analyst	111
AAS	Information Technology	112
AAS	Network Systems Administrator	113
CC*	Network Specialist	114
CC*	Information Center Specialist	114
CC	Microsoft System Administrator	114

## **Cosmetic Services**

CC*	Cosmetology	115
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## **Criminal Justice *See Protective Services***

## **Diesel**

AAS	Diesel Engine Mechanic and Repairer	116
CC**	Diesel Technician (self-paced, open-entry program)	116
CC*	Diesel System Specialist Certificate (self-paced, open-entry program)	117
CC*	Diesel Engine Specialist (self-paced, open-entry program)	117

## **Drafting and Design**

AAS	Computer-Aided Drafting and Design	118
CC*	Computer-Aided Drafting and Design	118

## **Early Childhood Professions**

AAS	Early Childhood Professions	119
CC*	Early Childhood Professions	120
CC*	Administrator's Credentials	120
CC*	Special Child Option	121
MSA	Child Development Associate	121

## **Electronics**

AAS	Computer Electronics	122
CC*	Computer Electronics Technology	122
AAS	Network Professional Specialization	123
CC*	Network Professional Specialization	123

## **Emergency Medical Technology**

AAS	Emergency Medical Technology	124
CC*	EMT-Paramedic	125

## **Fire Protection *See Protective Services***

## General Studies

AGS	General Studies	126
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## Graphics and Printing

AAS	Graphics and Printing	127
CC*	Graphics and Printing Technology (self-paced, open-entry program)	128
CC*	Graphics and Printing (Texas Department of Criminal Justice only)	128

## Health Information Management (see Office Technology)

## Heating and Air Conditioning

AAS	Heating, Air Conditioning and Refrigeration Mechanic and Repairer	129
CC**	Heating, Air Conditioning and Refrigeration	130
CC*	Residential Heating, Air Conditioning and Refrigeration	130
CC*	Commercial Heating, Air Conditioning and Refrigeration	131
CC*	Heating, Air Conditioning and Refrigeration (Texas Department of Criminal Justice only)	131

## Hospitality Management

AAS	Restaurant and Culinary Management	132
AAS	Hotel Management Specialization	133
CC*	Culinary Arts	134
CC*	Restaurant Skills	134
CC*	Property Management Advanced	135
CC*	Restaurant Operations (Texas Department of Criminal Justice only)	135
CC*	Institutional Food Service Operations	136
CC*	Room Divisions	136
AAS	Food and Beverage Management Specialization	137
CC*	Food and Beverage Management (Online and eArmyU only)	138

## Legal Assistant (see Paralegal/Legal Assistant)

## Maintenance Technology

AAS	Maintenance Technology	140
CC**	Building Trades (self-paced, open-entry program)	141
CC*	Carpentry Trades (self-paced, open-entry program)	141
CC*	Construction Trades (self-paced, open-entry program)	142
CC*	Residential Construction (Brady Campus only)	142

## Medical Laboratory Technician

AAS	Medical Laboratory Technician	143
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## Mental Health Services

AAS	At Risk Youth Specialization	144
CC*	At Risk Youth Specialization Advanced Certificate	145
AAS	Chemical Dependency Specialization	146
CC*	Chemical Dependency Specialization Advanced Certificate	147
AAS	Social Work Specialization	148

## Nursing

AAS	Nursing Associate Degree	149
AAS	Nursing Option for LVN	150
AAS	Nursing Option - Paramedic to ADN	151
CC*	Vocational Nursing	152

## **Office Technology**

AAS	Executive Assistant	153
CC**	Administrative Support	154
CC*	General Office Assistant (Texas Department of Criminal Justice only)	154
CC*	Office Assistant	155
CC*	Software Applications Specialist	155
AAS	Office Management	156
CC**	Office Management	157
CC*	Office Management	157
CC*	Office Information Management	158
CC*	Health Information Management (self-paced, open-entry program)	159
CC*	Medical Office Specialist (self-paced, open-entry program)	160
CC*	Medical Secretary (self-paced, open-entry program)	160
CC*	Medical Transcription	160

## **Paralegal/Legal Assistant**

AAS	Legal Assistant	139
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## **Protective Services**

AAS	Criminal Justice	161
AAS	Criminal Justice - Corrections Specialization	162
CC*	Criminal Justice Studies Specialization	163
AAS	Criminal Justice - Law Enforcement Technology Specialization	164
CC	Basic Peace Officer Training (non-credit)	165
CC*	Extended Basic Peace Officer Training	165
	Fire Protection Technology	165

## **Radio and Television Broadcasting**

CC*	Radio Broadcasting	166
CC*	Television Broadcasting	166

## **Welding**

AAS	Welding	167
CC**	Welding Technology (self-paced, open-entry program)	168
CC*	Fitter (self-paced, open-entry program)	168
CC*	Welder (self-paced, open-entry program)	169
CC*	Tacker (self-paced, open-entry program)	169

## Core Curriculum

In the spirit of accomplishing Central Texas College's mission, the core curriculum experience will prepare you to learn effectively through your college years so that you carry these aptitudes for learning into your life careers. It is the goal of Central Texas College to graduate well-educated men and women who are articulate, interested in lifelong learning and capable of becoming creative citizens. The core curriculum design and implementation will also facilitate the transferability of lower division courses between Central Texas College and universities.

## Associate of Science and Associate of Arts Degree Requirements

Requirements for the Associate of Science (AS) and the Associate of Arts (AA) degrees

Core Area	Course Options	Semester Credit Hours
Communications (010) Speech (011)	<b>ENGL</b> 1301 and 1302 and 3 hours of Speech <b>SPCH</b> 1315, 1318, 1321.	6 3
Mathematics (020)	<b>MATH</b> 1316, 1325, 1350, 1351, 1414, 2412, 2413, 2414, 2415.	3
Natural Science (030)	<b>BIOL</b> 1406, 1407, 1411, 1413, 2401, 2402, 2413, 2421, 2428. <b>CHEM</b> 1406, 1407, 1411, 1412, 2423, 2425. <b>GEOL</b> 1403, 1404, 1405. <b>PHYS</b> 1401, 1402, 1411, 1412, 1415, 2425, 2426. <b>ENVR</b> 1401. <b>AGRI</b> 1407, 1415, 1419.	8
Humanities (visual/performing arts) (050)	<b>ARTS</b> 1303, 1304, 1311, 1312, 1316, 1317, 2311, 2313, 2314, 2316, 2317, 2323, 2326, 2341, 2342, 2346, 2347, 2356, 2357, 2366. <b>DRAM</b> 1310, 1320, 1321, 1330, 1351, 1352, 2336, 2366. <b>MUSI</b> 1162, 1181, 1183, 1192, 1216, 1217, 1301, 1304, 1306, 1307, 1311, 1312, 2311, 2312.	3
(literature, philosophy, and cultural studies) (040)	<b>ANTH</b> 2301, 2302, 2346, 2351. <b>ENGL</b> 2322, 2323, 2327, 2328, 2332, 2333. <b>SPCH</b> 2341. <b>HUMA</b> 1315. <b>PHIL</b> 1301, 1304, 1316, 1317, 2303, 2306, 2307.	3
Social/Behavioral Sciences U.S. History (060) Political Science (070)	<b>HIST</b> 1301, 1302. <b>GOVT</b> 2301, 2302.	12
(other social/behavioral science) (080)	<b>HIST</b> 2301, 2311, 2312, 2381. <b>GOVT</b> 2304. <b>PSYC</b> 2301, 2308, 2314, 2315, 2316. <b>SOCI</b> 1301, 1306, 2301, 2319. <b>ECON</b> 2301, 2302. <b>GEOG</b> 1300, 1301, 1302, 1303. <b>AGRI</b> 2317.	3
Health, Wellness, Kinesiology (090)	<b>PHED</b> 1101-1104, 1106-1108, 1110, 1114-1116, 1118, 1120, 1123-1126, 1129-1131, 1133, 1136, 1138, 1140-1149, 1151-1153, 1158-1159, 2150, 2155.	1
Total Core Requirements		42
Computer Technology/Skills (CTS) (Must meet skills required for basic use of computers)	(Successfully completed course or competency challenge exam) BCIS 1405. COSC 1300. AGRI 1309.	
Transfer Course Selections Required	Transfer courses may vary depending on the major the student wishes to pursue. Courses must be university parallel. Texas common course numbered (TCCN) courses which will meet the bachelor degree requirements of the university to which the student plans to transfer. See individual curriculum plans for specific courses.	24
Total Semester Credit Hours		66

**NOTE** A course cannot count toward more than one requirement of the degree.

**NOTE** Students planning to attend a senior college should coordinate with that senior college to ensure that the courses they take at Central Texas College will fulfill degree requirements there.

### **The requirements for a CTC Associate of Arts degree are:**

Complete Core .....	42 semester Credit Hours
Health/Wellness/Kinesiology selection (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology selection .....	3 Semester Credit Hours
Foreign Language selection (FREN, GERM, SPAN, JAPN) .....	8 Semester Credit Hours
Specialization selection - University Parallel, Texas Common Course (TCCN) .....	10 Semester Credit Hours
	<b>Total 66 Semester Credit Hours</b>

### **The requirements for a CTC Associate of Science degree are:**

Complete Core .....	42 semester Credit Hours
Health/Wellness/Kinesiology selection (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology selection .....	3 Semester Credit Hours
Mathematics selection (MATH).....	3 Semester Credit Hours
Natural Science selection (BIOL, CHEM, PHYS, GEOL) .....	4 Semester Credit Hours
Specialization selection - University Parallel, Texas Common Course (TCCN) .....	11 Semester Credit Hours
	<b>Total 66 Semester Credit Hours</b>

### **Additional Associate of Arts and Associate of Science Degree Requirements**

- A minimum of 25 percent of semester credit hours earned within the Central Texas College System
- All required courses in the major as listed in this Catalog.
- Satisfy:
  - A minimum overall grade point average of 2.0 (“C” average).
  - A minimum “C” on each course in the major.
  - A minimum of 2.0 “C” with Central Texas College.
- A minimum score on all sections of the THEA test or other state-approved TSI test unless TSI exempt or eligible for a waiver.
- Meeting all other Central Texas College and departmental requirements.

### **Associate of General Studies Degree**

Students planning to attend a senior college should coordinate with that senior college to ensure that the courses they take at Central Texas College will fulfill degree requirements there. To receive an Associate of General Studies Degree students must complete a minimum of 64 semester hours which must include:

- Communications to include either:
  - ENGL 1301 and three semester hours of oral communications, or
  - ENGL 1312.
- Three semester hours of humanities or fine arts.
- Three semester hours of mathematics, MATH 1332, 1342 or higher level.
- HIST 1301 and 1302.
- GOVT 2301 and 2302.
- Three semester hours of computer instruction.
- Two semester hours of physical education from activity courses.
- If the major is music, journalism, commercial art, or television/radio broadcasting, all required courses in the major as listed in this Catalog must be completed.
- A minimum of 25 percent of semester hour credits earned within the Central Texas College System.
- A minimum overall grade point average of 2.0 (“C” average), to include a minimum 2.0 “C” average on all courses taken with Central Texas College.
- Meeting all other Central Texas College and departmental requirements.
- In cases where freshman and/or sophomore degree requirements of the receiving college for a bachelor’s degree differ from those listed above, changes can be made in the Associate of General Studies Degree requirements when approved by the appropriate Department Chair.
- A minimum score on all sections of the THEA test or other state-approved TSI test unless TSI exempt or eligible for a waiver.

## **Associate of Applied Science Degree**

Students must complete the specific degree requirements in the degree plan for their major field as shown in the program of study.

The associate of applied science general education component must constitute a minimum of 15 semester credit hours drawn from and include at least one course from each of the following three required areas: Humanities/Fine Arts; Social/Behavioral; and Natural Science/Mathematics. If a student takes ENGL 1312, the student must complete an additional 3 semester hours from one of the three required areas.

The degrees consist of a minimum of 64 semester hours and will include:

- Communications to include either:
  - ENGL 1301 and three semester hours of oral communications, or
  - ENGL 1312.
- Three semester hours of humanities or fine arts.
- Three semester hours of mathematics, MATH, as required by specific program.
- Three semester hours of social or behavioral science.
- Three semester hours of computer instruction or successful competency challenge exam.
- A minimum of 50 percent of semester credit hours of technical courses in the major or a closely related field.
- A minimum of 25 percent of semester hours credit earned within the Central Texas College System.
- All required courses in the major as listed in this Catalog.
- Satisfy:
  - A minimum overall grade point average 2.0 (“C” average).
  - A minimum “C” on each course in the major.
  - A minimum of 2.0 “C” with Central Texas College.
- A minimum score on all sections of the THEA test or other state-approved TSI test unless TSI exempt or eligible for a waiver.
- Meeting all other Central Texas College and departmental requirements.

Students may be required to repeat major courses in their field of study if graduation is not accomplished within five years after courses are completed.

## **Approved Electives**

Approved electives are courses which, although not specifically related to the major, are designed to broaden the student’s exposure to various disciplines considered supportive of the program’s objectives. Credits earned at CTC are transferable to other institutions in accordance with policies of the receiving institutions. Students who plan to transfer to other institutions for degree completion or to pursue a more advanced degree are advised to consult with officials of the receiving school for degree requirements and transfer policy.

# Associate of Arts and Associate of Science Degrees

## Agriculture Science (AGRI) 010000

### Associate of Science Degree

**66 Total Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Mathematics Selection (MATH).....	3 Semester Credit Hours
Natural Science Selection (BIOL, CHEM, PHYS, GEOL).....	4 Semester Credit Hours
Specialization - University Parallel, Texas Common Course (TCCN).....	11 Semester Credit Hours
AGRI 1231 The Agriculture Industry, AGRI 1407 Agronomy, AGRI 1309 Computers in Agriculture. AGRI 1419 Introductory Animal Science, AGRI 2317 Introduction to Agriculture Economics.	

## Art (ARTS) 500702

### Associate of Arts Degree

**66 Total Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Foreign Language (FREN, GERM, SPAN, JAPN) .....	8 Semester Credit Hours
Specialization - University Parallel, Texas Common Course (TCCN).....	10 Semester Credit Hours
ARTS 1303/04 Art History I & II, ARTS 1311/12 Design I & II, ARTS 1316/17 Drawing I & II, ARTS 2323 Life Drawing I, ARTS 2311 Design III, ARTS 2313/14 Design Communications I & II, ARTS 2316/17 Painting I & II, ARTS 2326 Sculpture I, ARTS 2341/42 Art Metals I & II, ARTS 2346/47 Ceramics I & II, ARTS 2356/57 Photography I & II, ARTS 2366 Watercolor I.	

## Biology (BIOL) 260101

### Associate of Science Degree

**66 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Mathematics Selection (MATH).....	3 Semester Credit Hours
Natural Science Selection (BIOL, CHEM, PHYS, GEOL).....	4 Semester Credit Hours
Specialization - University Parallel, Texas Common Course (TCCN).....	11 Semester Credit Hours
BIOL 1406 General Biology I, BIOL 1407 General Biology II, BIOL 1411 General Botany, BIOL 2428 Vertebrate Zoology	

## Business Administration (BUBA) 520101

### Associate of Arts Degree

**70 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	2 Semester Credit Hour
Computer Technology .....	4 Semester Credit Hours
Foreign Language (FREN, GERM, SPAN, JAPN) Not required by some schools see note below .....	8 Semester Credit Hours
Specialization -University Parallel, Texas Common Course (TCCN).....	12 Semester Credit Hours
ACCT 2301 Principles of Financial Accounting, ACCT 2302 Principles of Managerial Accounting, BUSI 1301 Business Principles, ECON 2301 Principles of Macroeconomics, ECON 2302 Principles of Microeconomics.	

\* Note: See your CTC counselor or the Business Administration Department Chair for a suggested complete Business Administration Degree Plan designed for students seeking a Bachelor's Degree.

In cases where lower division degree requirements of the receiving institution for a bachelor's degree differ from those listed above, changes can be made in the Associate in Arts/Science degree requirements when approved by the appropriate Department Chair, Campus Dean, Dean of Student Developmental Services/Associate Dean of Guidance and Counseling, and/or receiving institution. It may be beneficial to complete additional coursework above the 66 semester credit hours with the appropriate approval.

## **Chemistry (CHEM) 400501**

### **Associate of Science Degree**

**66 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Mathematics Selection (MATH).....	3 Semester Credit Hours
Natural Science Selection (BIOL, CHEM, PHYS, GEOL).....	4 Semester Credit Hours
Specialization - University Parallel, Texas Common Course (TCCN).....	11 Semester Credit Hours
CHEM 1411 General Chemistry I, CHEM 1412 General Chemistry II, CHEM 2423 Organic Chemistry I, CHEM 2425 Organic Chemistry II.	

## **Commercial Art (CART) 500402**

### **Associate of Arts Degree**

**66 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Foreign Language (FREN, GERM, SPAN, JAPN) .....	8 Semester Credit Hours
Specialization -University Parallel, Texas Common Course (TCCN).....	10 Semester Credit Hours
ARTS 1303/04 Art History I & II, ARTS 1311/12 Design I & II, ARTS 1316/17 Drawing I & II, ARTS 2323 Life Drawing I, ARTS 2313/14 Design Communications I & II and ARTS 2356/57 Photography I & II.	

## **Drama (DRMA) 500501**

### **Associate of Arts Degree**

**66 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Foreign Language (FREN, GERM, SPAN, JAPN) .....	8 Semester Credit Hours
Specialization -University Parallel, Texas Common Course (TCCN).....	10 Semester Credit Hours
DRAM 1310, Introduction to Theater, DRAM 1320/21 Theater Practicum I & II, DRAM 1330 Stagecraft I, DRAM 1351/52 Acting I & II, DRAM 2336 Voice for the Theater, DRAM 2366 Development of the Motion Picture I.	

## **Engineering (ENGR) 140101**

### **Associate of Science Degree**

**74 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Computer Technology .....	4 Semester Credit Hours
Mathematics Selection (MATH 2413 and MATH 2414).....	8 Semester Credit Hours
Engineering (Introductory) (ENGR 1305 or ENGR 2302).....	3 Semester Credit Hours
Engineering Selection (ENGR 2301).....	3 Semester Credit Hours
Specialization - University Parallel, Texas Common Course (TCCN).....	14 Semester Credit Hours
MATH 2318 Linear Algebra, MATH 2415 Calculus III, ENGR 1201 Introduction to Engineering, ENGR 1304 Engineering Graphics I, PHYS 1411 Introductory Astronomy I, PHYS 1412 Introductory Astronomy II.	

## **Environmental Science (ENVS) 030104**

### **Associate of Science Degree**

**66 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Mathematics Selection (MATH).....	3 Semester Credit Hours
Natural Science Selection (BIOL, CHEM, PHYS, GEOL).....	4 Semester Credit Hours
Specialization - University Parallel, Texas Common Course (TCCN).....	11 Semester Credit Hours
BIOL 1406/1407 General Biology I & II, BIOL 1411 General Botany, BIOL 1413 General Zoology, CHEM 1411/12 General Chemistry I & II, ENVR 1401 Environmental Science, GEOL 1403 Physical Geology.	

In cases where lower division degree requirements of the receiving institution for a bachelor's degree differ from those listed above, changes can be made in the Associate in Arts/Science degree requirements when approved by the appropriate Department Chair, Campus Dean, Dean of Student Developmental Services/Associate Dean of Guidance and Counseling, and/or receiving institution. It may be beneficial to complete additional coursework above the 66 semester credit hours with the appropriate approval.

## **Geology (GEOL) 400601**

### **Associate of Science Degree**

**66 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Mathematics Selection (MATH).....	3 Semester Credit Hours
Natural Science Selection (BIOL, CHEM, PHYS, GEOL).....	4 Semester Credit Hours
Specialization - University Parallel, Texas Common Course (TCCN).....	11 Semester Credit Hours
GEOL 1403 Physical Geology, GEOL 1404 Historical Geology, GEOG 1301 Physical Geography	

Students deficient in mathematics must take College Algebra. This course should be taken during the summer term prior to the freshman year.

## **Interdisciplinary Studies (IDST) 240101**

### **Associate of Arts Degree**

**66 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Foreign Language (FREN, GERM, SPAN, JAPN) .....	8 Semester Credit Hours
Specialization -University Parallel, Texas Common Course (TCCN).....	10 Semester Credit Hours

## **Journalism/Communications (COMM) 090401**

### **Associate of Arts Degree**

**66 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Foreign Language (FREN, GERM, SPAN, JAPN) .....	8 Semester Credit Hours
Specialization -University Parallel, Texas Common Course (TCCN).....	10 Semester Credit Hours
COMM 1307 Introduction to Mass Communication, COMM 2311 News Gathering and Writing I, COMM 2315 News Gathering and Writing II, COMM 2389 Academic Cooperative.	

See also, Radio/Television Broadcasting, Associate of Arts Degree and Certificates of Completion in Radio Broadcasting and Radio and Television Broadcasting.

## **Mathematics (MATH) 270101**

### **Associate of Science Degree**

**68 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	4 Semester Credit Hours
Mathematics Selection (MATH 2413 and MATH 2414).....	8 Semester Credit Hours
Natural Science Selection (BIOL, CHEM, PHYS, GEOL).....	4 Semester Credit Hours
Specialization - University Parallel, Texas Common Course (TCCN).....	7 Semester Credit Hours
MATH 2318 Linear Algebra, MATH 2412 Precalculus Math, MATH 2415 Calculus III.	

In cases where lower division degree requirements of the receiving institution for a bachelor's degree differ from those listed above, changes can be made in the Associate in Arts/Science degree requirements when approved by the appropriate Department Chair, Campus Dean, Dean of Student Developmental Services/Associate Dean of Guidance and Counseling, and/or receiving institution. It may be beneficial to complete additional coursework above the 66 semester credit hours with the appropriate approval.

## Modern Language (FLAN) 160101

### Associate of Arts Degree

**66 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Foreign Language (FREN, GERM, SPAN, JAPN) .....	8 Semester Credit Hours
Specialization -University Parallel, Texas Common Course (TCCN).....	10 Semester Credit Hours
LANG 1411 Beginning Foreign Language I, LANG 1412 Beginning Foreign Language II, LANG 2311 Intermediate Foreign Language, LANG 2312 Intermediate Foreign Language.	

## Music (MUSI) 500901

### Associate of Arts Degree

**66 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Foreign Language (FREN, GERM, SPAN, JAPN) .....	8 Semester Credit Hours
Specialization -University Parallel, Texas Common Course (TCCN).....	10 Semester Credit Hours
*MUAP I, MUAP II, MUAP III, MUAP IV in area appropriate to student (Voice, Piano, Strings, Brass, Percussion, or Woodwinds), **MUEN 1131 Instrumental Ensemble, **MUEN 1151 Vocal Ensemble, MUSI 1181 Class Piano I, MUSI 1183 Class Voice I, *MUSI 1216 Ear Training and Sight Singing I, **MUSI 1217 Ear Training and Sight Singing II, MUSI 1301 Fundamentals of Music I, MUSI 1307 Music Literature, *MUSI 1311 Music Theory I, **MUSI 1312 Music Theory II, MUSI 2311 Music Theory III, MUSI 2312 Music Theory IV.	

\*MUAP (Individualized Instruction) and MUEN (Ensemble) must be taken each semester while attending CTC.

\*\*MUEN 1131 and MUEN 1151 are residency requirements but do not transfer as credit toward the Bachelors of Music degree

\*MUSI 1216 and MUSI 1311 should be taken concurrently

\*\*MUSI 1217 and MUSI 1312 should be taken concurrently

## Radio/Television Broadcasting (RTBD) 090701

### Associate of Arts Degree

**66 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Foreign Language (FREN, GERM, SPAN, JAPN) .....	8 Semester Credit Hours
Specialization -University Parallel, Texas Common Course (TCCN).....	10 Semester Credit Hours
COMM 1307 Introduction to Mass Communications, COMM 2331 Radio Television Announcing, COMM 2303 Audio/Radio Production, COMM 1336 Television Production I, COMM 1337 Television Production II, COMM 2327 Introduction to Advertising.	

Two certificates of completion, RTBD Radio Broadcasting and RTBC Radio & Television Broadcasting are available. Additionally, the Associates of General Studies with a Television/Radio Broadcasting concentration is available.

## Social Science (SOCI) 450101

### Associate of Arts Degree

**66 Semester Credit Hours**

Complete Core .....	42 Semester Credit Hours
Health/Wellness/ Kinesiology (PHED Activity Courses).....	3 Semester Credit Hours
Computer Technology .....	3 Semester Credit Hours
Foreign Language (FREN, GERM, SPAN, JAPN) .....	8 Semester Credit Hours
Specialization -University Parallel, Texas Common Course (TCCN).....	10 Semester Credit Hours
ANTH, ECON, GEOG, GOVT, HIST, PSYC, SOCI.	

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