Agriculture

The Central Texas College Department of Agriculture offers an Associate of Applied Science (AAS) Degree in the specialized areas of Equine Management, Horticultural Development, and Agricultural Production. A Certificate of Completion in Agriculture Technology is also available. These awards are designed to provide an entry-level, industry-validated "hands-on" approach to learning.

For students wishing to pursue a Baccalaureate degree the Associate of Science degree in Agriculture Science is designed to maximize the transfer of lower level course work to the Baccalaureate degree granting public education institution within the State of Texas.

Agriculture Science (AGRI) 010000

Associate of Science Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Computer Technology	3
Mathematics Selection (MATH)	3
Natural Science Selection (BIOL, CHEM, PHYS, GEOL)	4
Agriculture Science Specialization	11
Total Hours	**66**

AGRI 1131 The Agriculture Industry, AGRI 1407 Agronomy, AGRI 1309 Computers in Agriculture. AGRI 1419 Introductory Animal Science, AGRI 2317 Introduction to Agriculture Economics.

Agricultural Industries (AGI13) 010104

Certificate of Completion

First Semester			**Credit**
AGRI	1309	Computers in Agriculture	3
AGRI	1131	Agriculture Industry	1
AGRI	1407	Agronomy	4
OR			
AGRI	1419	Introduction to Animal Science	4
AGCR	1307	Range Management	3
AGEQ	1311	Equine Science I	3
Second Semester			
AGRI	2330	Wildlife Conservation and Mgmt.	3
AGAH	1347	Animal Reproduction	3
OR			
AGAH	1353	Beef Cattle Management	3
AGAH	1343	Animal Health	3
AGEQ	2311	Equine Science II	3
OR			
HALT	1322	Landscape Design	3
Third Semester			
AGEQ	1301	Equine Behavior and Training I	3
OR			
HALT	2308	Greenhouse Management	3
AGRI	2301	Agriculture Power Units	3
AGRI	2317	Introduction to Agriculture Economics	3
AGAH	2313	Principles of Feeds and Feeding	3
OR			
AGCR	2318	Soil Science	3
Fourth Semester			
AGEQ	1319	Western Horsemanship I	3
OR			
HALT	1319	Landscape Construction	3
AGEQ	2301	Equine Behavior and Training II	3
OR			
HALT	1345	Golf/Sports Field/Park Management	3
AGMG	2306	Livestock and Meat Marketing	3
AGMG	2486	Internship	4
Total Hours			**51**

Production Specialization (AGP12) 010104

Certificate of Completion

First Semester			**Credit**
AGRI	1131	The Agriculture Industry	1
AGRI	1419	Introductory Animal Science	4
AGAH	1343	Animal Health	3
AGRI	1309	Computers in Agriculture	3
Second Semester			
AGMG	2306	Livestock and Meat Marketing	3
AGAH	2313	Principles of Feed and Feeding	3
AGAH	1353	Beef Cattle Production	3
AGCR	1307	Range Management	3
AGRI	2317	Agriculture Economics	3
Total Hours			**26**

Horticultural Specialization (AGH12) 010104

Certificate of Completion

First Semester			**Credit**
AGRI	1131	The Agriculture Industry	1
AGRI	1309	Computers in Agriculture	3
HALT	1324	Turf Grass Management	3
AGRI	1415	Horticulture	4
Second Semester			
HALT	1338	Irrigation/Water Management	3
HALT	1470	Horticulture Home Gardening	4
HALT	2308	Greenhouse Management	3
AGCR	2318	Soil Science	3
Total Hours			**24**

Equine Specialization (AGE12) 010104

Certificate of Completion

First Semester			**Credit**
AGRI	1131	The Agriculture Industry	1
AGRI	1309	Computers in Agriculture	3
AGRI	1419	Introduction to Animal Science	4
AGEQ	1301	Equine Behavior and Training I	3
AGEQ	1311	Equine Science I	3
Second Semester			
AGAH	1343	Animal Health	3
AGRI	2317	Introduction to Agriculture Economics	3
AGAH	2313	Principles of Feeds and Feeding	3
AGEQ	1319	Western Horsemanship I	3
Total Hours			**26**

Automotive Mechanic

This program is designed for the student who wishes to enter the Automotive Repair career field. It provides entry-level, industry-validated, hands-on learning covering the entire spectrum of Automotive Service and Repair using the latest technologies in automotive systems, tools, and equipment. Instruction is to ASE requirements.

The certificates of completion within this program may be completed through the Vocational Skills Center. The Vocational Skills Center offers students instruction through a self-paced, open-entry delivery format. This instructional clock hour format provides flexibility to accommodate the special needs of the student.

Automotive Mechanic/Technician (AUMT) 470604

Associate of Applied Science Degree

First Year

First Semester			**Credit**
AUMT	1405	Intro. to Automotive Technology	4
AUMT	2305	Automotive Engine Theory	3
AUMT	1407	Automotive Electrical Systems	4
AUMT	2437	Automotive Electronics	4
MATH	1332	Contemporary Mathematics	3

Second Semester			
AUMT	1472	Automotive Computer Systems	4
AUMT	1445	Automotive Climate Control Systems	4
AUMT	1410	Automotive Brake Systems	4
AUMT	2413	Automotive Drive Train and Axles	4
ENGL	1301	Composition I	3

Second Year

First Semester			
SPCH		SPCH 1315 or 1321	3
AUMT	1416	Automotive Suspension and Steering Systems	4
ELCT		Computer Technology Skills	3
AUMT	2417	Automotive Engine Performance Analysis I	4
GOVT	2305	Federal Government	3

Second Semester			
AUMT	2425	Automotive Automatic Transmission and Transaxle	4
AUMT	2434	Automotive Engine Performance Analysis II	4
ELCT		Humanities/Fine Arts Selection	3
ELCT		Elective	3
AUMT	1419	Automotive Engine Repair	
or			
AUMT	2488	Internship	4
Total Hours			**72**

Automotive Technician (AUTT) 470604

Certificate of Completion

			Cr/Clock
AUMT	1405	Intro. to Automotive Technology	4/96
AUMT	2305	Automotive Engine Theory	3/64
AUMT	1407	Automotive Electrical Systems	4/144
AUMT	2437	Automotive Electronics	4/96
AUMT	2417	Automotive Engine Performance Analysis I	4/144
AUMT	1445	Automotive Climate Control Systems	4/128
AUMT	1472	Automotive Computer Systems	4/144
AUMT	1410	Automotive Brake Systems	4/128
AUMT	1416	Automotive Suspension and Steering Systems	4/128
AUMT	2413	Automotive Drive Train and Axles	4/128
AUMT	2425	Automotive Automatic Transmission and Transaxle	4/128
AUMT	2434	Automotive Engine Performance Analysis II	4/144
WLDG	2413	Intermediate Welding Using Multiple Processes	4/144
AUMT	1419	Automotive Engine Repair	4/96
or			
AUMT	2488	Internship	4/304
Total Hours			**55**
Total Clock Hours			**1712/1920**

Basic Automotive Technician (AUB13) 470604

Certificate of Completion

			Cr/Clock
AUMT	1405	Intro. to Automotive Technology	4/96
AUMT	1407	Automotive Electrical Systems	4/144
AUMT	1410	Automotive Brake Systems	4/128
AUMT	1416	Automotive Suspension and Steering Systems	4/128
AUMT	2305	Automotive Engine Theory	3/64
or			
AUMT	2488	Internship	4/304
Total Hours			**19/20**
Total Clock Hours			**560/800**

Automotive System Specialist (AUSS) 470604

Certificate of Completion

			Cr/Clock
AUMT	1405	Intro. to Automotive Technology	4/96
AUMT	2305	Automotive Engine Theory	3/64
AUMT	1407	Automotive Electrical Systems	4/144
AUMT	2437	Automotive Electronics	4/96
AUMT	1445	Automotive Climate Control Systems	4/128
AUMT	1410	Automotive Brake Systems	4/128
AUMT	1416	Automotive Suspension and Steering Systems	4/128
AUMT	2413	Automotive Drive Train and Axles	4/128
AUMT	2425	Automotive Automatic Transmissions and Transaxles	4/128
WLDG	2413	Intermediate Welding Using Multiple Processes	4/144
or			
AUMT	2488	Internship	4/304
Total Hours			**39**
Total Clock Hours			**1184/1344**

Automotive Tune-Up Specialist (AUTS) 470604
Certificate of Completion

			Cr/Clock
AUMT	1405	Intro. to Automotive Technology	4/96
AUMT	2305	Automotive Engine Theory	3/64
AUMT	1407	Automotive Electrical Systems	4/144
AUMT	2437	Automotive Electronics	4/96
AUMT	2417	Automotive Engine Performance Analysis I	4/144
AUMT	1472	Automotive Computer Systems	4/144
AUMT	2434	Automotive Engine Performance Analysis II	4/144
AUMT	1419	Automotive Engine Repair	4/96
or			
AUMT	2488	Internship	4/304
Total Hours			**31**
Total Clock Hours			**928/1136**

Truck Driving (CVMS) 490205
Noncredit Marketable Skills Achievement

			CEU	Contact Hours
CVOP	2033	Advanced Driving Skills I	8	80
CVOP	2037	Advanced Driving Skills II	8	80
Total Hours			**16**	**160**

Aviation Science

The Central Texas College Aviation Science Department offers a two year program leading to an Associate of Applied Science degree and the Commercial Pilot Certificate with an Instrument Airplane rating. The curriculum includes 14 core aviation classes which are transferable to upper level institutions that offer Baccalaureate degrees in aviation. The Central Texas College Flight Training is conducted under Federal Aviation Association (FAA) regulations for FAR 141 Approved Schools. The local area offers an excellent training environment, which allows for efficient use of flight time. Central Texas College also offers advanced flight training for Flight Instructors and for Multi-Engine ratings. Extra curriculum activities include Alpha ETA Rho, the National Intercollegiate Aviation Fraternity and the Central Texas College Precision Flight Team which competes in the National Intercollegiate Flying Association (NIFA) competitions. Central Texas College is a member of the University Aviation Association.

Aviation Science (AVSC) 490102
Associate of Applied Science Degree

First Year

First Semester			**Credit**
AIRP	1315	Private Flight	3
AIRP	1417	Private Pilot Ground School	4
AIRP	1305	Aircraft Science	3
ENGL	1301	Composition I	3
MATH	1414	College Algebra	4

Second Semester			
AIRP	1255	Intermediate Flight	2
AIRP	1341	Advanced Air Navigation	3
AIRP	1307	Aviation Meteorology	3
SPCH	1315	Public Speaking	3
ENGL	1302	Composition II	3
ELCT		Approved Elective	3

Third Semester			
AIRP	2250	Instrument Flight	2
AIRP	1451	Instrument Ground School	4
ELCT		Science Selection (with Lab)	4
KINE		Physical Activity Course	1

Second Year

First Semester			
AIRP	2239	Commercial Flight	2
AIRP	2337	Commercial Ground School	3
AIRP	1343	Aerodynamics	3
ELCT		Computer Technology Skills	4
ELCT		Fine Arts Selection	3

Second Semester			
AIRP	2355	Propulsion Systems	3
GOVT	2305	Federal Government	3
AVIM	2331	Airline Management	3
ELCT		Humanities Elective (Literature)	3
Total Hours			**72**

Aviation Science Certificate (AVSC) 490102
Certificate of Completion

First Semester			**Credit**
AIRP	1315	Private Flight	3
AIRP	1417	Private Pilot Ground School	4
AIRP	1305	Aircraft Science	3

Second Semester			
AIRP	1255	Intermediate Flight	2
AIRP	1341	Advanced Air Navigation	3
AIRP	1307	Aviation Meteorology	3
AIRP	1343	Aerodynamics	3

Third Semester			
AIRP	2250	Instrument Flight	2
AIRP	1451	Instrument Ground School	4
AIRP	2355	Propulsion	3

Fourth Semester			
AIRP	2239	Commercial Flight	2
AIRP	2337	Commercial Ground School	3
AVIM	2331	Airline Management	3
Total Hours			**38**

Business

The Business Administration and Legal Assistant/Paralegal Department at Central Texas College offers 21 degrees and certificates through three divisions. Degree attainment in the career fields of business management, the hospitality industry, the legal assistant profession, homeland security, and real estate are available.

The Associate of Science degree in Business Administration is designed for the student wishing to pursue a Baccalaureate degree. The Central Texas College curriculum is designed to maximize the transfer of lower level course work to the Baccalaureate degree granting public education institution within the State of Texas.

The Associate of Applied Science and the certificate awards are designed to provide an entry-level, industry-validated "hands-on" approach to learning.

Business Administration (BUB13) 520101
Associate of Science Degree

First Year

First Semester			Credit
BUSI	1301	Business Principles	3
SCIE		Natural Science (see BIOL, CHEM, ENVR, GEOL, and PHYS)*	4
HIST	1301	U.S. History I*	3
ENGL	1301	Composition I*	3
MATH	1414	College Algebra**	4
KINE		Physical Activity Course*	1

Second Semester			
SCIE		Natural Science (see BIOL, CHEM, ENVR, GEOL, and PHYS)*	4
HIST	1302	U.S. History II*	3
ENGL	1302	Composition II*	3
ELCT		ARTS/DRAM/MUSI*	3
KINE		Physical Activity Course	1

Second Year

First Semester			
ECON	2301	Macroeconomics (preferred)**	3
ACCT	2301	Principles of Accounting I	3
ELCT		PHIL 1301, English Literature or HUMA 1315*	3
GOVT	2305	Federal Government*	3
KINE		Physical Activity Course	1

Second Semester			
ACCT	2302	Principles of Accounting II	3
BCIS	1405	Business Computer Applications	4
GOVT	2306	Texas Government*	3
ECON	2302	Microeconomics	3
SPCH		SPCH 1315 or 1321 (preferred)*	3
KINE		Physical Activity Course	1
Total Hours			**62**

* Core Courses
** For students transferring to Universities within the state of Texas the following Core Courses are highly recommended when completing the Core Curriculum:
MATH 1414, ECON 2301

Business Management (BUBM) 520201
Associate of Applied Science Degree

First Year

First Semester			Credit
HRPO	1311	Human Relations	3
ENGL	1301	Composition I	3
ITSC	1409	Integrated Software Applications I	
or			
BCIS	1405	Business Computer Applications	4
BUSI	1301	Business Principles	3
SPCH		SPCH 1315 or 1321	3
KINE		Physical Activity Course	1

Second Semester			
BMGT	1325	Office Management	3
BMGT	1327	Principles of Management	3
MRKG	1311	Principles of Marketing	3
ELCT		BUSI/BMGT/RELE/ITSC/IMED/MRKG/BUSG	3-4
ELCT		BMGT 2370, BMGT 2488, or RELE 2488	3-4
KINE		Physical Activity Course	1

Second Year

First Semester			
MATH		MATH 1332, 1342 or higher level	3
ACCT	2301	Principles of Financial Accounting	3
ELCT		BUSI/BMGT/RELE/MRKG/BUSG	3
HRPO	2301	Human Resource Management	3
BUSG	2305	Business Law/Contracts	
or			
BUSI	2301	Business Law	3
ECON		ECON 2301 or 2302	3

Second Semester			
BUSG	2309	Small Business Management	3
ACCT	2302	Principles of Managerial Accounting	3
ELCT		Humanities/Fine Arts Selection	3
BMGT	1301	Supervision	3
ELCT		Elective	3
ELCT		BMGT 2371, BMGT 2489, or RELE 2489	3-4
Total Hours			**69-72**

Business Management (BUBM) 520201
Certificate of Completion

First Semester			Credit
BUSI	1301	Business Principles	3
BMGT	1327	Principles of Management	3
HRPO	1311	Human Relations	3
ITSC	1409	Integrated Software Applications I	
or			
BCIS	1405	Business Computer Applications	4
MRKG	1311	Principles of Marketing	3

Second Semester			
HRPO	2301	Human Resource Management	3
BMGT	1301	Supervision	3
BUSG	2305	Business Law/Contracts	
or			
BUSI	2301	Business Law	3
ELCT		BUSI/BMGT/BUSG/RELE/MRKG	3
ELCT		BMGT 2370, BMGT 2488, RELE 2488	3-4
Total Hours			**31-32**

Entrepreneurship (BUEN) 520201
Certificate of Completion

First Semester			Credit
BUSG	2309	Small Business Management	3
POFT	1325	Business Math and Machine Applications	3
ITSC	1409	Integrated Software Applications	
or			
BCIS	1405	Business Computer Applications	4
MRKG	1311	Principles of Marketing	3
ACCT	2301	Principles of Financial Accounting	3

Second Semester			
HRPO	2301	Human Resource Management	3
BUSG	2305	Business Law/Contracts	
or			
BUSI	2301	Business Law	3
ELCT		BUSI/BMGT/BUSG/RELE/IMED/MRKG	3-4
BUSG	1370	Small Business Accounting	3
BUSG	1371	Entrepreneurship and Business Plan Development	3
Total Hours			**31-32**

Business Management Marketing and Sales Management Specialization (BUMSM)
520201
Associate of Applied Science Degree

First Year

First Semester			Credit
HRPO	1311	Human Relations	3
ENGL	1301	Composition I	3
BUSI	1301	Business Principles	3
ITSC	1409	Integrated Software Applications I	
or			
BCIS	1405	Business Computer Applications	4
SPCH		SPCH 1315 or 1321	3
KINE		Physical Activity Course	1

Second Semester			
MATH		MATH 1332, 1342 or higher level	3
MRKG	1311	Principles of Marketing	3
BMGT	1325	Office Management	3
MRKG	1302	Principles of Retailing	3
ELCT		BMGT 2370, BMGT 2488, or RELE 2488	3-4
KINE		Physical Activity Course	1

Second Year

First Semester			
ELCT		BUSI/BMGT/RELE/ITSC/IMED	3-4
ECON		ECON 2301 or 2302	3
ELCT		Humanities/Fine Arts Selection	3
ELCT		BMGT/BUSI/BUSG/RELE/HRPO	3
ELCT		BMGT/BUSI/BUSG/RELE	3
ACCT	2301	Principles of Financial Accounting	3

Second Semester			
ACCT	2302	Principles of Managerial Accounting	3
BUSG	2305	Business Law/Contracts	
or			
BUSI	2301	Business Law	3
MRKG	2333	Principles of Selling	3
ELCT		Elective	3
ELCT		BMGT/BUSI/BUSG/RELE	3
ELCT		BMGT 2371, BMGT 2489, or RELE 2489	3-4
Total Hours			**69-72**

Business Management Marketing and Sales Management (BUMSM)
520201
Certificate of Completion

First Semester			Credit
HRPO	1311	Human Relations	3
BUSI	1301	Business Principles	3
ITSC	1409	Integrated Software Applications I	
or			
BCIS	1405	Business Computer Applications	4
ELCT		BMGT/BUSI/BUSG/RELE/HRPO	3

Second Semester			
MRKG	1311	Principles of Marketing	3
MRKG	2333	Principles of Selling	
ELCT		BUSI/BMGT/BUSG/RELE/MRKG	3
ELCT		BMGT 2370, BMGT 2488, or RELE 2488	3-4
Total Hours			**25-26**

Business Management Real Estate Specialization (BUR13)
520201
Associate of Applied Science Degree

First Year

First Semester			Credit
HRPO	1311	Human Relations	3
ENGL	1301	Composition I	3
BUSI	1301	Business Principles	3
ITSC	1409	Integrated Software Applications I	
or			
BCIS	1405	Business Computer Applications	4
SPCH		SPCH 1315 or 1321	3

Second Semester			
MATH		MATH 1332, 1342 or higher level	3
MRKG	1311	Principles of Marketing	3
BMGT	1325	Office Management	3
RELE	1406	Real Estate Principles	4
KINE		Physical Activity Course	1

Second Year

First Semester			
ELCT		RELE 2488, BMGT 2488, BMGT 2370	3-4
ECON		ECON 2301 or 2302	3
ELCT		Humanities/Fine Arts Selection	3
RELE	1311	Law of Contracts	3
RELE	2301	Law of Agency	3
ACCT	2301	Principles of Financial Accounting	3

Second Semester			
RELE	1200	Contract Forms and Addenda	2
RELE	1219	Real Estate Finance	2
MRKG	2333	Principles of Selling	3
RELE	1315	Property Management	3
RELE	2489	Internship	4
Total Hours			**62-63**

Business Management Real Estate Sales Agent (BUR13)
520201
Certificate of Completion

First Semester			Credit
RELE	1406	Principles of Real Estate*	4
RELE	2301	Law of Agency*	3
RELE	1311	Law of Contracts*	3
RELE	1200	Contract Forms and Addenda*	2

Second Semester			
RELE	1219	Real Estate Finance*	2
RELE	2488	Internship	4
Total Hours			**18**

* Upon successful completion of these courses, the student is eligible to sit for the Texas Real Estate Sales Agent License exam.

This meets the revised Texas Real Estate Commission Education requirements effective September 1, 2012.

Child Development

People working with young children must have special skills: knowledge of child development, boundless patience, good judgment, real strength of character, and maturity to exercise the balance of control and latitude such young children require. Few fields offer so many job opportunities for people with such varying levels of education, in such a variety of settings, and with as many different scheduling patterns.

Child Development (CDS14) 190709

Associate of Applied Science Degree

First Year

First Semester			**Credit**
CDEC/TECA	1311	Educating Young Children	3
CDEC	1313	Curriculum Resources for Early Childhood Programs	3
CDEC	1319	Child Guidance	3
CDEC	1164	Practicum - Child Development	1
ENGL	1301	Composition I	3
CDEC	1359	Children with Special Needs	3
Second Semester			
CDEC	1358	Creative Arts for Early Childhood	3
CDEC/TECA	1354	Child Growth and Development	3
CDEC/TECA	1318	Wellness of the Young Child	3
CDEC/TECA	1303	Families, School and Community	3
CDEC	1321	The Infant and Toddler	3

Second Year

First Semester			
CDEC	1356	Emergent Literacy for Early Childhood	3
CDEC	2164	Practicum - Child Development	1
CDEC	2307	Math & Science for Early Childhood	3
CDEC	2326	Administration of Programs for Children I	
or			
CDEC	2328	Admin. of Programs for Children II	3
SPCH		SPCH 1315, 1318, 1321 or 2341	3
MATH		MATH 1324, 1332, 1342 or higher level	3
or			
ENVR	1401	Environmental Science	4
Second Semester			
BCIS	1405	Business Computer Applications	4
KINE		Physical Activity Course	1
CDEC	2288	Internship - Child Care Provider/ Assistant	2
ELCT		Humanities/Fine Arts Selection	3
ELCT		Social/Behavioral Science Selection	3
Total Hours			**60-61**

Child Development (CDS14) 190709

Certificate of Completion

First Year

First Semester			**Credit**
CDEC/TECA	1311	Educating Young Children	3
CDEC	1313	Curriculum Resources for Early Childhood Programs	3
CDEC	1319	Child Guidance	3
ENGL	1301	Composition I	3
CDEC	1359	Children with Special Needs	3
KINE		Physical Activity Course	1
Second Semester			
CDEC/TECA	1354	Child Growth and Development	3
CDEC/TECA	1318	Wellness of the Young Child	3
CDEC/TECA	1303	Families, School and Community	3
ELCT		Computer Technology Skills (BCIS)	4
MATH		MATH 1324, 1332, 1342 or higher level	3
Third Semester			
SPCH		SPCH 1315, 1318, 1321 or 2341 (SPCH 1315 is preferred)	3
ELCT		Visual & Perfroming Arts or HumanitiesSelection	3
ELCT		Social/Behavioral Science Selection	3
CDEC	2326	Administration of Programs for Children I	3
CDEC	1356	Emergent Literacy for Early Childhood	3
Total Hours			**47**

Administrator's Credentials (CDA14) 190708

Certificate of Completion

First Semester			**Credit**
CDEC/TECA	1311	Educating Young Children	3
CDEC/TECA	1303	Families, School and Community	3
CDEC	1313	Curriculum Resources for Early Childhood Programs	
CDEC	1319	Child Guidance	3
CDEC	2326	Administration of Programs for Children I	3
ENGL	1301	Composition I	3
Second Semester			
CDEC/TECA	1354	Child Growth and Development	3
CDEC/TECA	1318	Wellness of the Young Child	3
CDEC	2328	Administration of Programs for Children II	3
CDEC	1164	Practicum - Chld Development	1
ELCT		Computer Technology Skills	3
Total Hours			**31**

Child Development Associate (CDCD) 190709

Marketable Skills Achievement

Upon successful completion, students are eligible to continue to pursue the CDA, National Credentialing program.

			Credit
CDEC	1317	Child Development Associate Training I	3
CDEC	2322	Child Development Associate Training II	3
CDEC	2324	Child Development Associate Training III	3
Total Hours			**9**

Communications

The Communications Department at Central Texas College provides students with an academic foundation in English, speech, foreign language, and journalism to help them be successful in their chosen career field. The department offers Associates of Arts degrees in journalism and modern languages, both of which are designed for maximum transfer of lower-level course work to upper-level education institutions.

The Communications Department also offers many opportunities for students to become involved in activities that can enhance their educational experience. The Spanish Club offers students the opportunity to make new friends and practice their Spanish-speaking skills. Journalism students publish a monthly student newspaper. Byways, CTC's annual journal of arts and letters, publishes original art and writing by CTC students. The CTC Speech Team offers interested students an outstanding opportunity to improve speaking skills through competitions with two- and four-year schools around the state. The department also sponsors a local chapter of the Sigma Kappa Delta National English Honor Society.

Additionally, the Communications Department provides foundation skills for students interested in pursuing a degree in radio and television broadcasting. (See degree plans under Radio and Television Broadcasting.)

Journalism/Communications (COMM) 090401

Associate of Arts Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Computer Technology	3
Foreign Language (FREN, GERM, SPAN, JAPN)	8
Journalism/Communications Specialization	10
Total Hours	**66**

COMM 1307 Introduction to Mass Communication, COMM 2311 News Gathering and Writing I, COMM 2315 News Gathering and Writing II, COMM 2389 Academic Cooperative.

Modern Language (FLAN) 160101

Associate of Arts Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Computer Technology	3
Foreign Language (FREN, GERM, SPAN, JAPN)	8
Modern Language Specialization	10
Total Hours	**66**

LANG 1411 Beginning Foreign Language I, LANG 1412 Beginning Foreign Language II, LANG 2311 Intermediate Foreign Language, LANG 2312 Intermediate Foreign Language.

Computer Science

The selection of an appropriate degree plan is a critical step for an entering computer science student. Each degree and certificate leads to a specific career in the field of computer science. To make an informed career decision, students should gather information from many different sources.

Programmer Analyst (CSB13) 111002

Associate of Applied Science Degree

Programmer Analysts are computer professionals who determine system requirements and write computer programs to satisfy those requirements. Assignments consist of on-the-job application programs for the student to analyze, code, and run in the lab. Courses in C, C++, Visual Basic, JAVA, Web Authoring, and Systems Analysis provide the skills required in today's job market.

First Year

First Semester			Credit
ITNW	1437	Introduction to the Internet	4
ITSE	1402	Computer Programming (Visual Basic)	4
ITSC	1409	Integrated Software Applications I	4
ENGL	1301	Composition I	3
MATH		MATH 1332, 1342 or higher level	3

Second Semester			
IMED	1416	Web Design I	4
ITSE	2421	Object Oriented Programming (C++)	4
ITSC	1405	Introduction to PC Operating Systems	4
ITSW	1407	Introduction to Database	4
KINE		Physical Activity Course	1

Second Year

First Semester			
ITSY	1400	Fundamentals of Information Security	4
ITSE	2459	Advanced Computer Programming (C#)	4
ITSC	1415	Project Management Software	4
IMED	2409	Internet Commerce	4
ELCT		Social/Behavioral Science Selection	3

Second Semester			
ITSE	2402	Intermediate Web Programming (PHP/Scripting/Mobile Apps)	4
ITSY	1442	Information Technology Security (CompTIA Security+)	4
ITNW	1458	Network+ (CompTIA Network+)	4
SPCH		SPCH 1315 or 1321	3
ELCT		Humanities/Fine Arts Selection	3
Total Hours			**72**

Information Security (CSS13) 111003

Associate of Applied Science Degree

The security manager determines policies and procedures to safeguard data on computers and networks, and monitors compliance. As ever increasing amounts of personal, business, and national security information is stored on computers, special attention must be paid to its security. Information must be protected as a business asset, to assure privacy, and to further national security.

First Year

First Semester			Credit
COSC	1301	Introduction to Computing	3
ITSC	1409	Integrated Software Applications I	4
ITSY	1400	Fundamentals of Information Security	4
ENGL	1301	Composition I	3
KINE		Physical Activity Course	1

Second Semester			
ITSC	1405	Introduction to PC Operating Systems	4
ITSY	1442	Information Technology Security (CompTIA Security+)	4
ITNW	1437	Introduction to the Internet	4
ITNW	1458	Network+ (CompTIA Network+)	4

Second Year

First Semester

ITSY	2442	Incident Response and Handling	4
IMED	1416	Web Design I	4
ELCT		Humanities/Fine Arts	3
ELCT		Social/Behavioral Science Selection	3
SPCH		SPCH 1315 or 1321	3

Second Semester

ITSY	2401	Firewalls and Network Security	4
MATH		MATH 1332, 1342 or higher level	3
ITSC	1415	Project Management Software	4
ITSY	2459	Security Assessment & Auditing	4
Total Hours			**63**

Information Security Specialist (CSS13) 111003

Certificate of Completion

First Semester			**Credit**
COSC	1301	Introduction to Computing	3
ITSC	1405	Introduction to PC Operating Systems	4
ITSY	1400	Fundamentals of Information Security	4
ITSY	2401	Firewalls and Network Security	4

Second Semester

ITSY	1442	Information Technology Security (CompTIA Security+)	4
ITSC	2439	Personal Computer Help Desk	4
ITSY	2459	Security Assessment & Auditing	4
ITSC	1415	Project Management Software	4
Total Hours			**31**

Information Technology (CSI13) 111002

Associate of Applied Science Degree

The primary job function of the Information Management professional is to assist others with using computer technology in the performance of their jobs. This requires a general knowledge of PC hardware and software, to include operating systems and applications such as word processors and spreadsheets, and the internet. This degree offers a clear path to understanding computers and today's technology.

First Year

First Semester			**Credit**
COSC	1301	Introduction to Computing	3
ITSC	1409	Integrated Software Applications I	4
ITNW	1437	Introduction to the Internet	4
IMED	1416	Web Design I	4
ELCT		Social/Behavioral Science Selection	3
KINE		Physical Activity Course	1

Second Semester

ITSC	1405	Introduction to PC Operating Systems	4
ITSW	1401	Introduction to Word Processing	4
ITSW	1404	Introduction to Spreadsheets	4
ENGL	1301	Composition I	3

Second Year

First Semester

ITSE	1402	Computer Programming (Visual Basic)	4
ITNW	1458	Network+ (CompTIA Network+)	4
IMED	2409	Internet Commerce	4
ITSC	2439	Personal Computer Help Desk Support	4
ELCT		Humanities/Fine Arts Selection	3

Second Semester

ITSC	1415	Project Management Software	4
ITSY	1442	Information Technology Security (CompTIA Security+)	4
ITSC	1425	Personal Computer Hardware (CompTIA A+)	4
MATH		MATH 1332, 1342 or higher level	3
SPCH		SPCH 1315 or 1321	3
Total Hours			**71**

Network Systems Administrator (CSN13) 111002

Associate of Applied Science Degree

A Network Systems Administrator plans, installs, and maintains multi-user networks. Job duties include: networking systems with different types of hardware and operating systems, ensuring system security and integrity, troubleshooting and repairing network problems, training network users, and writing technical documentation.

First Year

First Semester			**Credit**
ITSC	1405	Introduction to PC Operating Systems	4
ITSC	1409	Integrated Software Applications I	4
ITSE	1402	Computer Programming (Visual Basic)	4
ENGL	1301	Composition I	3
KINE		Physical Activity Course	1

Second Semester

ITSC	1425	Personal Computer Hardware (CompTIA A+)	4
ITNW	1458	Network+ (CompTIA Network+)	4
ELCT		Social/Behavioral Science Selection	3
ITNW	1437	Introduction to the Internet	4
MATH		MATH 1332, 1342 or higher level	3

Second Year

First Semester

ITSC	2439	Personal Computer Help Desk Support	4
ITNW	1416	Network Administration	4
ITSY	1442	Information Technology Security (CompTIA Security+)	4
ELCT		Humanities/Fine Arts Selection	3

Second Semester

ITNW	1454	Implementing and Supporting Servers	4
ITNW	2454	Internet/Intranet Server	4
IMED	2409	Internet Commerce	4
SPCH		SPCH 1315 or SPCH 1321	3
ITSC	1415	Project Management Software	4
Total Hours			**68**

Network Specialist (CSN13) 111002

Certificate of Completion

First Semester			**Credit**
ITSC	1409	Integrated Software Applications I	4
ITSE	1402	Computer Programming (Visual Basic)	4
ITNW	1437	Introduction to the Internet	4
ITSC	1425	Personal Computer Hardware (CompTIA A+)	4

Second Semester

ITNW	1458	Network+ (CompTIA Network+)	4
ITNW	1416	Network Administration	4
ITNW	2454	Internet/Intranet Server	4
ITNW	1454	Implementing and Supporting Servers	4
Total Hours			**32**

Computer Helpdesk Specialist (CSI13) 110301
Certificate of Completion

First Semester			Credit
ITNW	1437	Introduction to the Internet	4
ITSW	1401	Introduction to Word Processing	4
ITSW	1404	Introduction to Spreadsheets	4
ITSC	1409	Integrated Software Applications I	4
Second Semester			
IMED	1416	Web Design I	4
ITSC	1405	Introduction to PC Operating Systems	4
ITSC	1425	Personal Computer Hardware (CompTIA A+)	4
ITSC	2439	Personal Computer Help Desk Support	4
Total Hours			**32**

Web Design Basics (CSW13) 111004
Certificate of Completion

First Semester			Credit
ITNW	1437	Introduction to the Internet	4
ITSE	1402	Computer Programming (Visual Basic)	4
ITSC	1405	Introduction to PC Operating Systems	4
IMED	1416	Web Design I	4
Second Semester			
IMED	2409	Internet Commerce	4
ITSE	2402	Intermediate Web Programming (PHP/Scripting/Mobile Apps)	4
ITSY	1442	Information Technology Security (CompTIA Security+)	4
ITSY	1400	Fundamentals of Information Security	4
Total Hours:			**32**

IT Industry Certification Preparation Program (MCS13) 111002
Certificate of Completion

Upon successful completion of each course listed below the student can attempt certification exams offered by independent companies leading to certification as a MCITP Server Administrator, or CompTIA's Network+, or Security + certification.

			Credit
ITNW	1458	Network+	4
ITNW	1416	Network Administration	4
ITSC	1425	Personal Computer Hardware (CompTIA A+)	4
ITNW	2454	Internet/Intranet Server	4
ITNW	1454	Implementing and Supporting Servers	4
ITSY	1442	Information Technology Security (CompTIA Security+)	4
Total Hours			**24**

Diesel

This program is designed for students who wish to pursue a career in the Diesel Repair field. Students are taught using a "systems" approach (engines, power trains, hydraulics, etc.) which allows them to enter any one of the many separate fields of Diesel Repair (trucks/transportation construction equipment, agriculture, etc.). The program provides entry-level, industry-validated, hands-on instruction in Diesel Service and Repair using the latest technologies in Diesel systems, tools, and equipment.

The certificates of completion within this program may be completed through the Vocational Skills Center. The Vocational Skills Center offers students instruction through a self-paced, open-entry delivery format. This instructional clock hour format provides flexibility to accommodate the special needs of the student.

Diesel Engine Mechanic and Repairer (DEM12) 470605
Associate of Applied Science Degree

First Semester			Credit
DEMR	1401	Shop Safety and Procedures	4
DEMR	1406	Diesel Engine I	4
DEMR	1423	Heating, Ventilation, and Air Conditioning, Troubleshooting and Repair	4
ENGL	1301	Composition I	3
ELCT		Computer Technology Skills	3
Second Semester			
DEMR	1421	Power Train I	4
DEMR	1405	Basic Electrical Systems	4
DEMR	1417	Basic Brake Systems	4
MATH	1332	Contemporary Mathematics	3
SPCH		SPCH 1315 or 1321	3
Third Semester			
DEMR	1416	Basic Hydraulics	4
DEMR	1410	Diesel Engine Testing and Repair I	4
DEMR	2412	Diesel Engine Testing and Repair II	4
ELCT		Humanities/Fine Arts Selection	3
ELCT		Elective	3
Fourth Semester			
GOVT	2305	Federal Government	3
DEMR	1447	Power Train II	4
DEMR	1330	Steering and Suspension I	3
DEMR	2434	Advanced Diesel Tune-Up and Troubleshooting	4
DEMR	1449	Diesel Engine II	
or			
DEMR	2488	Internship	4
Total Hours			**72**

Diesel Technician (DET12)
470605
Certificate of Completion

			Cr/Clock
DEMR	1401	Shop Safety and Procedures	4/96
DEMR	1406	Diesel Engine I	4/96
DEMR	1405	Basic Electrical Systems	4/144
DEMR	1410	Diesel Engine Testing and Repair I	4/128
DEMR	2434	Advanced Diesel Tune-Up and Troubleshooting	4/144
DEMR	2412	Diesel Engine Testing and Repair II	4/144
DEMR	1416	Basic Hydraulics	4/144
DEMR	1421	Power Train I	4/144
DEMR	1447	Power Train II	4/96
DEMR	1417	Basic Brake Systems	4/128
DEMR	1330	Steering and Suspension I	3/96
DEMR	1423	Heating, Ventilation, and Air Conditioning, Troubleshooting and Repair	4/128
DEMR	1449	Diesel Engine II	4/144
WLDG	2413	Intermediate Welding Using Multiple Processes	4/144
or			
DEMR	2488	Internship	4/304
Total Hours			**55**
Total Clock Hours			**1776/1936**

Diesel System Specialist (DES12)
470605
Certificate of Completion

			Cr/Clock
DEMR	1401	Shop Safety and Procedures	4/96
DEMR	1405	Basic Electrical Systems	4/144
DEMR	1416	Basic Hydraulics	4/144
DEMR	1421	Power Train I	4/144
DEMR	1447	Power Train II	4/96
DEMR	1417	Basic Brake Systems	4/128
DEMR	1330	Steering and Suspension I	3/96
DEMR	1423	Heating, Ventilation, and Air Conditioning, Troubleshooting and Repair	4/128
WLDG	2413	Intermediate Welding Using Multiple Processes	4/144
or			
DEMR	2488	Internship	4/304
Total Hours			**35**
Total Clock Hours			**1120/1280**

Diesel Engine Specialist (DESP)
470605
Certificate of Completion

			Cr/Clock
DEMR	1401	Shop Safety and Procedures	4/96
DEMR	1406	Diesel Engine I	4/96
DEMR	1405	Basic Electrical Systems	4/144
DEMR	1410	Diesel Engine Testing and Repair I	4/128
DEMR	2434	Advanced Diesel Tune-Up and Troubleshooting	4/144
DEMR	2412	Diesel Engine Testing and Repair II	4/144
DEMR	1449	Diesel Engine II	4/144
WLDG	2413	Intermediate Welding Using Multiple Processes	4/144
or			
DEMR	2488	Internship	4/304
Total Hours			**32**
Total Clock Hours			**1040/1200**

Drafting and Design

The Computer-Aided Drafting & Design Department (CADD) at Central Texas College provides a flexible, competency-based program of study. The program is based on the competencies which are common to all drafting and design technicians. Emphasis is on developing the student's critical thinking process, world of work skills, as well as drafting procedures and techniques.

Computer-Aided Drafting and Design (DFT12)
151301
Associate of Applied Science Degree

First Year

First Semester			**Credit**
DFTG	1405	Technical Drafting	4
DFTG	2412	Technical Illustration and Presentation	4
DFTG	1409	Basic Computer-Aided Drafting	4
MATH		MATH 1332, 1342 or 1414	3-4

Second Semester			
DFTG	2417	Descriptive Geometry	4
DFTG	2402	Machine Drafting	4
DFTG	2440	Solid Modeling/Design	4
ENGL	1301	Composition I	3
SPCH		SPCH 1315 or 1321	3

Second Year

First Semester			
DFTG	1417	Architectural Drafting-Residential	4
DFTG	1458	Electrical/Electronics Drafting	4
ARCE	1452	Structural Drafting	4
ELCT		Approved Elective	3
ELCT		Humanities/Fine Arts Selection	3

Second Semester			
DFTG	2423	Pipe Drafting	4
DFTG	2421	Topographical Drafting	4
DFTG	2438	Final Project -Advanced Drafting	4
ELCT		Social/Behavioral Science Selection	3
Total Hours			**66-67**

Computer-Aided Drafting and Design (DFT12)
151301
Certificate of Completion

			Credit
DFTG	1405	Technical Drafting	4
DFTG	2412	Technical Illustration and Presentation	4
DFTG	1409	Basic Computer-Aided Drafting	4
DFTG	2417	Descriptive Geometry	4
DFTG	2402	Machine Drafting	4
DFTG	2440	Solid Modeling/Design	4
MATH	1332	Contemporary Mathematics	3
Total Hours			**27**

Electronics

Computer Electronics and Networking has become the fastest growing technology career field in the world today. There are computers and networking systems imbedded in all facets of our lives. The Central Texas College Electronics program is designed for the student who wishes to enter the computer repair or networking career fields. It provides entry-level, industry-validated, hands-on instruction covering Computer Servicing and Repair and Computer Networking using state of the art tools and methodologies. Upon completion of this program of study, CTC graduates can expect to enter the job market with the skills required to succeed in this fast-paced industry.

Computer Electronics (ELC13) 151202

Associate of Applied Science Degree

First Year

First Semester			**Credit**
CETT	1421	Electronics Fabrication	4
CETT	1425	Digital Fundamentals	4
CETT	1403	DC Circuits	4
CPMT	1403	Introduction to Computer Technology	4
Second Semester			
MATH		MATH 1332, 1342 or higher level	3
CETT	1405	AC Circuits	4
CETT	1429	Solid State Devices	4
ENGL	1301	Composition I	3
ELCT		Social/Behavioral Science Selection	3

Second Year

First Semester			
CPMT	1445	Computer Systems Maintenance	4
CPMT	1449	Computer Networking Technology	4
CETT	1449	Digital Systems	4
CETT	1441	Solid State Circuits	4
Second Semester			
CPMT	1404	Microcomputer Systems Software	4
ELMT	2435	Certified Electronics Technician Training	4
ELCT		Humanities/Fine Arts Selection	3
ELMT	1301	Programmable Logic Controllers	3
SPCH		SPCH 1315 or 1321	3
Total Hours			**66**

Computer Electronics Technology (ELCP) 151202

Certificate of Completion

First Semester			**Credit**
CPMT	1403	Introduction to Computer Technology	4
CETT	1425	Digital Fundamentals	4
CETT	1403	DC Circuits	4
ENGL	1301	Composition I	3
Second Semester			
CETT	1405	AC Circuits	4
CETT	1429	Solid State Devices	4
CPMT	1445	Computer Systems Maintenance	4
SPCH		SPCH 1315 or 1321	3
Total Hours			**30**

Network Professional Specialization (ELF13) 151202

Associate of Applied Science Degree

First Year

First Semester			**Credit**
CPMT	1403	Introduction to Computer Technology	4
CETT	1425	Digital Fundamentals	4
CETT	1403	DC Circuits	4
ITCC	1401	Exploration-Network Fundamentals	4
Second Semester			
CETT	1421	Electronics Fabrication	4
CETT	1405	AC Circuits	4
ITCC	1404	CISCO Exploration 2-Routing Protocols and Concepts	4
MATH		MATH 1332, 1342 or higher level	3
ENGL	1301	Composition I	3

Second Year

First Semester			
CPMT	1445	Computer System Maintenance	4
ITNW	1451	Fundamentals of Wireless LANs	4
ITCC	2408	CISCO Exploration 3-LAN Switching and Wireless	4
ELCT		Social/Behavioral Science Selection	3
Second Semester			
ITCC	2441	CCNA Security	4
or			
ITCC	2459	Advanced Voice Over Internet Protocol (VOIP)	
ITCC	2410	CISCO Exploration 4-Accessing the WAN	4
ITNW	1313	Computer Virtualization	3
ELCT		Humanities/Fine Arts Selection	3
SPCH		SPCH 1315 or 1321	3
Total Hours			**66**

Network Professional Specialization (ELN8) 151202

Certificate of Completion

First Semester			**Credit**
CETT	1421	Electronics Fabrication	4
CETT	1403	DC Circuits	4
CPMT	1403	Introduction to Computer Technology	4
ITCC	1401	Exploration-Network Fundamentals	4
Second Semester			
ITCC	1404	CISCO Exploration 2-Routing Protocols and Concepts	4
CETT	1425	Digital Fundamentals	4
CETT	1405	AC Circuits	4
ENGL	1301	Composition I	3
Total Hours			**31**

Networking and Network Security (ELN11)
151202
Certificate of Completion

First Semester			Credit
ITCC	1401	Exploration-Network Fundamentals	4
ITCC	1404	CISCO Exploration 2-Routing Protocols and Concepts	4
Second Semester			
ITCC	2408	CISCO Exploration 3-LAN Switching and Wireless	4
ITCC	2410	CISCO Exploration 4-Accessing the WAN	4
Third Semester			
ITCC	2441	CCNA Security	4
Total Hours			**20**

Networking and Wireless Networking (ELNW)
151202
Certificate of Completion

First Semester			Credit
ITCC	1401	Exploration-Network Fundamentals	4
ITCC	1404	CISCO Exploration 2-Routing Protocols and Concepts	4
Second Semester			
ITCC	2408	CISCO Exploration 3-LAN Switching and Wireless	4
ITCC	2410	CISCO Exploration 4-Accessing the WAN	4
Third Semester			
ITNW	1451	Fundamentals of Wireless LANs	4
Total Hours			**20**

Networking and Network Telephony (VoiP) (ELNV)
151202
Certificate of Completion

First Semester			Credit
ITCC	1401	Exploration-Network Fundamentals	4
ITCC	1404	CISCO Exploration 2-Routing Protocols and Concepts	4
Second Semester			
ITCC	2408	CISCO Exploration 3-LAN Switching and Wireless	4
ITCC	2410	CISCO Exploration 4-Accessing the WAN	4
Third Semester			
ITCC	2459	Advanced Voice over Internet Protocol (VoIP)	4
Total Hours			**20**

Emergency Medical Technology

The Emergency Medical Technology program is offered to certified EMT-B or Advanced EMT applicants. Upon successful completion, students are eligible to take the exam to become certified as an Emergency Medical Technician – Paramedic through the National Registry of EMTs (NREMT) and the Texas Department of State Health Services. Central Texas College offers the certificate of completion and an Associate Degree in Applied Science.

Emergency Medical Technology (EMT13)
510904
Associate of Applied Science Degree

First Year

First Semester			Credit
EMSP	1401	Emergency Medical Technician - Basic	4
EMSP	1160	Clinical-EMT	1
BIOL	2401	Anatomy and Physiology I	4
PSYC	2314	Life Span Growth and Development	3
KINE		Physical Activity Course	1
Second Semester			
EMSP	1356	Patient Assessment and Airway Management	3
EMSP	1338	Introduction to Advanced Practice	3
EMSP	1355	Trauma Management	3
EMSP	1166	Practicum-EMT	1
BIOL	2402	Anatomy and Physiology II	4
ELCT		Elective	3
Third Semester			
EMSP	2444	Cardiology	4
ENGL	1301	Composition I	3
PSYC	2301	General Psychology	3

Second Year

First Semester			
EMSP	2434	Medical Emergencies	4
SPCH		SPCH 1315, 1318 or 1321	3
KINE		Physical Activity Course	1
ELCT		Humanities/Fine Arts Selection	3
EMSP	1167	Practicum-EMT	1
Second Semester			
EMSP	2330	Special Populations	3
BIOL	2420	Microbiology for Non-science Majors*	4
ITSC	1409	Integrated Software Applications I	4
Third Semester			
EMSP	2143	Assessment Based Management	1
EMSP	1268	Practicum-EMT	2
EMSP	2338	EMS Operations	3
Total Hours			**69**

* Biology 2421 may be accepted in lieu of BIOL 2420.

EMT - Paramedic (EMP9)
510904
Certificate of Completion

Upon successful completion of EMSP 1401 and EMSP 1160, students are eligible to sit for the EMT-Basic exam.

Upon successful completion of EMSP 1355, EMSP 1356 and EMSP 1166 students are eligible to sit for the Advanced EMT exam.

Upon successful completion of the certificate, students are eligible to sit for the EMT-Paramedic exam.

			Credit
EMSP	1401	Emergency Medical Technician -Basic	4
EMSP	1160	Clinical-EMT	1
EMSP	1338	Introduction to Advanced Practice	3
EMSP	1356	Patient Assessment and Airway Management	3
EMSP	1355	Trauma Management	3
EMSP	1166	Practicum-EMT	1
EMSP	2444	Cardiology	4
EMSP	2434	Medical Emergencies	4
EMSP	1167	Practicum-EMT	1
EMSP	2330	Special Populations	3
EMSP	2338	EMS Operations	3
EMSP	2143	Assessment Based Management	1
EMSP	1268	Practicum-EMT	2
Total Hours			**33**

Engineering

The Associate of Science degree in Engineering is designed for the student wishing to pursue a Baccalaureate degree. The Central Texas College curriculum is designed to maximize the transfer of lower level course work to the Baccalaureate degree granting public education institution within the State of Texas.

Engineering (ENGF3)
140101
Associate of Science Degree
First Year

First Semester			**Credit**
ENGR	1201	Introduction to Engineering	2
MATH	2412	Pre-Calculus	4
ENGL	1301	Composition I	3
SCIE *		Natural Science Selection	4
KINE		Physical Activity Selection	1

Second Semester			
ENGR	2301	Engineering Mechanics I – Statics	3
MATH	2413	Calculus I	4
ENGL	1302	Composition II	3
SPCH		1315 or 1321	3
SCIE *		Natural Science Selection	4
KINE		Physical Activity Selection	1

Second Year

First Semester			
MATH	2414	Calculus II	4
HIST	1301	United States History I	3
GOVT	2305	Federal Government	3
ELEC		Literature/Philosophy/Cultural Studies	3
KINE		Physical Activity Selection	1

Second Semester			
MATH	2415	Calculus III	4
ENGR	2302**	Engineering Mechanics II – Dynamics	3
HIST	1302	United States History II	3
GOVT	2306	Texas Government	3
ELEC		Social/Behavioral Science Selection	3
ELEC		Visual/Performing Arts	3
KINE		Physical Activity Selection	1
Total Hours			**66**

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 in Art/Science degree requirements when approved by the appropriate department chair.

* For students planning to transfer to TAMU, CHEM 1411 and PHYS 2425 should be completed.
** If class unavailable, can substitute with MATH 2318 or PHYS 2426 with department chair approval.

Fine Arts

The Associate of Arts Degree is designed to transfer course hours to a 4 year university for a Baccalaureate degree in Art, Drama, or Music. Individual courses within each curriculum also provide elective and individual enrichment opportunities.

Art (ARTS)
500702
Associate of Arts Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Computer Technology	3
Foreign Language (FREN, GERM, SPAN, JAPN)	8
Art Specialization	10
Total Hours	**66**

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 .

Commercial Art (CART)
500402
Associate of Arts Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Computer Technology	3
Foreign Language (FREN, GERM, SPAN, JAPN)	8
Commercial Art Specialization	10
Total Hours	**66**

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 (DRM11)
500501

Associate of Arts Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Computer Technology	3
Foreign Language (FREN, GERM, SPAN, JAPN)	8
Drama Specialization	10
Total Hours	**66**

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, DRAM 2367 Development of the Motion Picture II .

Music (MUS12)
500901

Associate of Arts Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Computer Technology	3
Foreign Language (FREN, GERM, SPAN, JAPN)	8
Music Specialization	10
Total Hours	**66**

*MUAP I, MUAP II, MUAP III, MUAP IV in area appropriate to student (Voice, Piano, Strings, Brass, Percussion, or Woodwinds), **MUEN 1132 Chamber (Small) Instrumental Ensemble, **MUEN 1152 Chamber (Small) Vocal Ensemble, [x]MUSI 1116 Sight Singing and Ear Training I, [xx]MUSI 1117 Sight Singing and Ear Training II, MUSI 1181 Class Piano I, MUSI 1183 Class Voice I, MUSI 1188 Class Percussion I, MUSI 1307 Music Literature, [x]MUSI 1311 Music Theory I, [xx]MUSI 1312 Music Theory II, MUSI 1390 Electronic Music I, 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 1132 and MUEN 1152 are residency requirements but do not transfer as credit toward the Bachelor of Music degree

[x]MUSI 1116 and MUSI 1311 should be taken concurrently
[xx]MUSI 1117 and MUSI 1312 should be taken concurrently

General Studies

The two-year General Studies program offers a wide selection of courses to fulfill degree requirements for students who have special education needs that are not satisfied by other degree programs; who want to experiment in diverse areas; who want to expand their base of knowledge or enhance their personal development; who are looking for particular skills; or who are employed and feel a need to expand overall skills to better meet new employment needs.

General Studies (GSTU) 240102

Associate of Arts Degree

This is a suggested curriculum.
Students must have a minimum of 16 semester credit hours within the Central Texas College System.

First Year

First Semester			**Credit**
ENGL	1301	Composition I	3
HIST	1301	United States History I	3
KINE		Physical Activity Course	1
ELCT		Electives*	9
Second Semester			
SPCH		Speech Selection	3
HIST	1302	United States History II	3
MATH		MATH 1332, 1342 or higher level	3
ELCT		Electives*	4
ELCT		Computer Technology Skills	3
Second Year			
First Semester			
GOVT	2305	Federal Government	3
ELCT		Electives*	12
KINE		Physical Activity Course	1
Second Semester			
GOVT	2306	Texas Government	3
ELCT		Humanities/Fine Arts Selection	3
ELCT		Electives*	10
Total Hours			**64**

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 receiving school for degree requirements and transfer policy.

* Students may select 35 semester credit hours from courses that fulfill the student's educational goals.

Graphics and Printing Technology

This program is for students who wish to prepare themselves to enter the Printing career field (Graphic Arts/Printing). The program provides entry-level, industry-validated, "hands-on" instruction that will prepare the student to enter and be successful in the Printing industry job market. Studies include: shop skills, layout, design, composition, desktop publishing (IBM compatible and Macintosh), press operation, bindery and preventive maintenance.

The certificates of completion within this program may be completed through the Vocational Skills Center. The Vocational Skills Center offers students instruction in a self-paced, open-entry delivery format. This instructional clock hour format provides flexibility to accommodate the special needs of the student.

Graphics and Printing (GP12) 100305
Associate of Applied Science Degree

First Year

First Semester			**Credit**
GRPH	1405	Intro to Graphic Arts & Printing	4
ARTC	1313	Digital Publishing I	3
ARTC	2313	Digital Publishing II	3
ENGL	1301	Composition I	3
ELEC		Humanities/Fine Arts Selection	3
Second Semester			
ARTC	2348	Digital Publishing III	3
ARTC	1327	Typography	3
ARTC	2333	Publication Design	3
MATH	1332	Contemporary Mathematics	3
GOVT		GOVT 2305 or 2306	3

Second Year

First Semester			
ARTC	1302	Digital Imaging I	3
ARTC	2305	Digital Imaging II	3
SPCH		SPCH 1315 or 1321	3
GRPH	2436	Prepress Techniques	4
ELEC		Computer Technology Skills	4
Second Semester			
GRPH	1419	Bindery & Finishing Operations	4
ARTC	2435	Portfolio Development for Graphic Design	4
OR			
GRPH	2488	Internship Graphics & Printing Equipment Operator	
GRPH	1474	Preventive Maintenance	4
GRPH	1309	Press Operations I	3
GRPH	2338	Press Operations II	3
GRPH	1374	Press Operations III	3
Total Hours			**69**

Graphics and Printing Technology (GP12) 100301
Certificate of Completion – Level 2

			Cr/Clock
GRPH	1405	Intro. to Graphic Arts & Printing	4
ARTC	1313	Digital Publishing I	3
ARTC	2313	Digital Publishing II	3
ARTC	2348	Digital Publishing III	3
ARTC	1327	Typography	3
ARTC	2333	Publication Design	3
ARTC	1302	Digital Imaging I	3
ARTC	2305	Digital Imaging II	3
GRPH	2436	Prepress Techniques	4
GRPH	1419	Bindery & Finishing Operations	4
ARTC	2435	Portfolio Development for Graphic Design	
OR			
GRPH	2488	Internship Graphics & Printing Equipment Operator	4
GRPH	1474	Preventive Maintenance	4
GRPH	1309	Press Operations I	3
GRPH	2338	Press Operations II	3
GRPH	1374	Press Operations III	3
Total Hours			**50**
Total Clock Hours			**1472/1680**

Graphics and Printing Technology Press Operations (GPP12) 100305
Certificate of Completion

			Cr/Clock
GRPH	1405	Intro to Graphic Arts & Printing	4/96
GRPH	2436	Prepress Techniques	4/128
GRPH	1474	Preventive Maintenance	4/96
GRPH	1309	Press Operations I	3/96
GRPH	2338	Press Operations II	3/96
GRPH	1374	Press Operations III	3/96
GRPH	1419	Bindery & Finishing Operations	4/96
GRPH	2488	Internship Graphics & Printing Equipment Operator	4/304
Total Hours			**29/1008**

Graphics and Printing Technology Graphic Design (GPGF2) 100305
Certificate of Completion

			Cr/Clock
GRPH	1405	Intro to Graphic Arts & Printing	4
ARTC	1313	Digital Publishing I	3
ARTC	2313	Digital Publishing II	3
ARTC	2348	Digital Publishing III	3
ARTC	1327	Typography	3
ARTC	2333	Publication Design	3
ARTC	1302	Digital Imaging I	3
ARTC	2305	Digital Imaging II	3
GRPH	2436	Prepress Techniques	4
GRPH	1419	Bindery & Finishing Operations	4
ARTC	2435	Portfolio Development for Graphic Design	
OR			
ARTC	2488	Internship Commercial and Advertising Art	4
Total Hours			**37**
Total Clock Hours			**1088/1296**

Heating and Air Conditioning

This program is designed for students desiring to prepare themselves for a career in residential and commercial air conditioning and refrigeration. The program provides entry-level, industry-validated "hands-on" instruction using current technologies and equipment.

Studies include air conditioning and refrigeration principles and theory, electrical theory and application, gas and electrical heating, A/C central principles, residential and commercial air conditioning, system design, commercial refrigeration, heat pumps and troubleshooting.

Heating, Air Conditioning and Refrigeration Mechanic and Repairer (HART)
470201
Associate of Applied Science Degree

First Year

First Semester			Credit
HART	1407	Refrigeration Principles	4
HART	1401	Basic Electricity for HVAC	4
HART	1445	Gas and Electric Heating	4
MATH	1332	Contemporary Mathematics	3
KINE		Physical Activity Course	1

Second Semester			
HART	1403	Air Conditioning Control Principles	4
HART	1441	Residential Air Conditioning	4
ELCT		Computer Technology Skills	4
ENGL	1301	Composition I	3
GOVT	2305	Federal Government	3

Second Year

First Semester			
HART	2449	Heat Pumps	4
HART	2438	Air Conditioning Installation and Startup	4
HART	2441	Commercial Air Conditioning	4
HART	2442	Commercial Refrigeration	4
ELCT		Humanities/Fine Arts Selection	3

Second Semester			
HART	2436	Air Conditioning Troubleshooting	4
HART	2431	Advanced Electricity for HVAC	4
SPCH		SPCH 1315 or 1321	3
HART	2445	Residential Air Conditioning System Design	
or			
HART	2488	Internship	4
Total Hours			**68**

Heating, Air Conditioning and Refrigeration (HART)
470201
Certificate of Completion

First Year

First Semester			Credit
HART	1407	Refrigeration Principles	4
HART	1401	Basic Electricity for HVAC	4
HART	1445	Gas and Electric Heating	4

Second Semester			
HART	1403	Air Conditioning Control Principles	4
HART	1441	Residential Air Conditioning	4
HART	2438	Air Conditioning Installation and Startup	4

Second Year

First Semester			
HART	2449	Heat Pumps	4
HART	2441	Commercial Air Conditioning	4
HART	2442	Commercial Refrigeration	4

Second Semester			
HART	2436	Air Conditioning Troubleshooting	4
HART	2431	Advanced Electricity for HVAC	4
HART	2445	Residential Air Conditioning System Design	
or			
HART	2488	Internship	4
Total Hours			**48**

Commercial Heating, Air Conditioning and Refrigeration (HARC)
470201
Certificate of Completion

First Semester			Credit
HART	1407	Refrigeration Principles	4
HART	1401	Basic Electricity for HVAC	4
HART	1445	Gas and Electric Heating	4
HART	2441	Commercial Air Conditioning	4

Second Semester			
HART	2431	Advanced Electricity for HVAC	4
HART	2442	Commercial Refrigeration	4
HART	1403	Air Conditioning Control Principles	4
HART	2436	Air Conditioning Troubleshooting	4
HART	2445	Residential Air Conditioning System Design	4
HART	2438	Air Conditioning Installation and Startup	
or			
HART	2488	Internship	4
Total Hours			**40**

Residential Heating, Air Conditioning and Refrigeration (HARR)
470201
Certificate of Completion

First Semester			Credit
HART	1407	Refrigeration Principles	4
HART	1401	Basic Electricity for HVAC	4
HART	1445	Gas and Electric Heating	4
HART	1441	Residential Air Conditioning	4
HART	1403	Air Conditioning Control Principles	4

Second Semester			
HART	2449	Heat Pumps	4
HART	2438	Air Conditioning Installation and Startup	4
HART	2431	Advanced Electricity for HVAC	4
HART	2436	Air Conditioning Troubleshooting	4
HART	2445	Residential Air Conditioning System Design	
or			
HART	2488	Internship	4
Total Hours			**40**

Hospitality Management

The Central Texas College Hospitality Management program offers an Associate in Applied Science degree in three areas of specialization: Restaurant and Culinary Management, Food and Beverage Management and Hotel Management.

Students at CTC have an opportunity to complete their Associate of Applied Science Degree using a "stepping stone" approach. Students may begin by completing one or several of the certificates of completion available. The semester credit hours earned through these certificates can be applied to the requirements of Associates of Applied Science degree. These certificates, ranging from 21 to 41 semester credit hours, will enable the student to put their education to work for them in a shorter period of time and still pursue the Associate of Applied Science Degree. These certificates include Property Management, Baking, Institutional Food Service Operations, Culinary Arts, Rooms Divisions, Food and Beverage Management, Restaurant Skills and Restaurant Operations.

Restaurant and Culinary Management (RCM13) 520901

Associate of Applied Science Degree

First Year

First Semester		**Credit**
CHEF 1305	Sanitation and Safety	3
HAMG 1321	Intro to the Hospitality Industry	3
CHEF 1301	Basic Food Preparation	3
ELCT	Humanities/Fine Arts Selection	3
HAMG 2307	Hospitality Marketing and Sales	3
RSTO 1221	Menu Management	2
KINE	Physical Activity Course	1

Second Semester		
GOVT 2305	Federal Government	3
SPCH	SPCH 1315 or SPCH 1321	3
ELCT	CHEF/PSTR	3
ELCT	CHEF/PSTR	3
HAMG 2301	Principles of Food and Beverage Operations	3

Second Year

First Semester		
HAMG 2332	Hospitality Financial Management	3
IFWA 1318	Nutrition for the Food Service Professional	3
ENGL 1301	Composition I	3
PSTR 1301	Fundamentals of Baking	3
ELCT	HAMG/RSTO/TRVM	3

Second Semester		
RSTO 1325	Purchasing for Hospitality Operations	3
MATH	MATH 1332 or MATH 1342	3
HAMG 1340	Hospitality Legal Issues	3
RSTO 1313	Hospitality Supervision	3
ELCT	Academic Elective	3
HAMG 2388	Internship	3
Total Hours		**66**

Hotel Management Specialization (HMH13) 520901

Associate of Applied Science Degree

First Year

First Semester		**Credit**
CHEF 1305	Sanitation and Safety	3
HAMG 1321	Intro to the Hospitality Industry	3
CHEF 1301	Basic Food Preparation*	3
ELCT	Humanities/Fine Arts Selection	3
ELCT	Academic Elective	3

Second Semester		
GOVT 2305	Federal Government	3
SPCH	SPCH 1315 or SPCH 1321	3
HAMG 2332	Hospitality Financial Management	3
RSTO 1313	Hospitality Supervision	3
HAMG 1313	Front Office Procedures	3
HAMG 2301	Principles of Food and Beverage Operations	3

Second Year

First Semester		
RSTO 1325	Purchasing for Hospitality Operations	3
RSTO 1204	Dining Room Service	2
HAMG 1342	Guest Room Maintenance	3
MATH	MATH 1332 or MATH 1342	3
HAMG 1340	Hospitality Legal Issues	3
ELCT	HAMG/RSTO/TRVM	3
KINE	Physical Activity Course	1

Second Semester		
HAMG 2337	Hospitality Facilities Management	3
ENGL 1301	Composition I	3
HAMG 2307	Hospitality Marketing and Sales	3
ELCT	HAMG/RSTO/TRVM	3
HAMG 2388	Internship	3
Total Hours		**66**

* HAMG 1324 may substitute.

Culinary Arts (HMC13) 520905

Associate of Applied Science Degree

First Year

First Semester		**Credit**
CHEF 1305	Sanitation and Safety	3
HAMG 1321	Intro to the Hospitality Industry	3
CHEF 1301	Basic Food Preparation	3
ELCT	Humanities/Fine Arts Selection	3
RSTO 1221	Menu Management	2

Second Semester		
CHEF 1410	Garde Manger	4
GOVT 2305	Federal Government	3
SPCH	SPCH 1315 or SPCH 1321	3
CHEF 2301	Intermediate Food Preparation	
OR		
CHEF 1302	Principles of Healthy Cuisine	3
CHEF 2302	Saucier	3

Second Year

First Semester

HAMG 2301	Principles of Food and Beverage Operations	3
KINE	Physical Activity Course	1
IFWA 1318	Nutrition for the Food Service Professional	3
ENGL 1301	Composition I	3
PSTR 1301	Fundamentals of Baking	3
CHEF 1341	American Regional Cuisine	3
CHEF 1345	International Cuisine	3

Second Semester

RSTO 1325	Purchasing for Hospitality Operations	3
MATH	MATH 1332 or MATH 1342	3
HAMG 1340	Hospitality Legal Issues	3
RSTO 1313	Hospitality Supervision	3
ELCT	Academic Elective	3
HAMG 2388	Internship	3
Total Hours		**67**

Culinary Arts (HMC13)
520905
Certificate of Completion

First Semester		**Credit**
CHEF 1305	Sanitation and Safety	3
RSTO 1313	Hospitality Supervision	3
HAMG 1321	Intro to the Hospitality Industry	3
CHEF 1301	Basic Food Preparation	3

Second Semester

CHEF 1410	Garde Manger	4
HAMG 2301	Principles of Food and Beverage Operations	3
ELCT	CHEF/PSTR	3

Third Semester

IFWA 1318	Nutrition for the Food Service Professional	3
HAMG 2388	Internship	3
RSTO 1325	Purchasing for Hospitality Operations	3
PSTR 1301	Fundamentals of Baking	3
ELCT	CHEF/PSTR	3
Total Hours		**37**

Restaurant Skills (HMR13)
520905
Certificate of Completion

		Credit
CHEF 1305	Sanitation and Safety	3
IFWA 1318	Nutrition for the Food Service Professional	3
CHEF 1301	Basic Food Preparation	3
HAMG 2301	Principles of Food and Beverage Operations	3
RSTO 1221	Menu Management	2
ELCT	CHEF/PSTR	3
PSTR 1301	Fundamentals of Baking	3
Total Hours		**20**

Baking (HMBK9)
520905
Certificate of Completion

		Credit
CHEF 1305	Sanitation and Safety	3
PSTR 1301	Fundamentals of Baking	3
PSTR 1302	Cake Baking and Production	3
PSTR 1306	Cake Decorating	3
PSTR 2350	Wedding Cakes	3
PSTR 2307	Cake Decorating II	3
PSTR 2331	Advanced Pastry Shop	3
Total Hours		**21**

Property Management Advanced (HMP13)
520904
Certificate of Completion

First Semester		**Credit**
HAMG 1313	Front Office Procedures	3
HAMG 1340	Hospitality Legal Issues	3
HAMG 1321	Intro to the Hospitality Industry	3
HAMG 2337	Hospitality Facilities Management	3
HAMG 2372	Hospitality Industry Training	3

Second Semester

HAMG 2332	Hospitality Financial Management	3
RSTO 1313	Hospitality Supervision	3
HAMG 1324	Hospitality Human Resources	3
HAMG 2301	Principles of Food and Beverage Operations	3
HAMG 2307	Hospitality Marketing and Sales	3

Third Semester

HAMG 1342	Guest Room Maintenance	3
HAMG 2388	Internship	3
Total Hours		**36**

Restaurant Operations (HRO13)
520905
Certificate of Completion
(Texas Department of Criminal Justice Only)

		Credit
CHEF 1305	Sanitation and Safety	3
CHEF 1301	Basic Food Preparation	3
HAMG 2301	Principles of Food and Beverage Operations	3
PSTR 1301	Fundamentals of Baking	3
RSTO 1221	Menu Management	2
HAMG 2307	Hospitality Marketing and Sales	3
HAMG 1340	Hospitality Legal Issues	3
HAMG 1321	Intro to the Hospitality Industry	3
IFWA 1318	Nutrition for the Food Service Professional	3
Total Hours		**26**

Institutional Food Service Operations (HMI13)
520905
Certificate of Completion

Upon successful completion of the Institutional Food Service Operations certificate, students are eligible to take the level 5 certification with the Texas School Food Association.

First Semester		Credit
CHEF 1305	Sanitation and Safety	3
IFWA 1318	Nutrition for the Food Service Professional	3
RSTO 2405	Management of Production & Service	4
CHEF 1301	Basic Food Preparation	3

Second Semester		
HAMG 1321	Intro to the Hospitality Industry	3
ELCT	CHEF/PSTR	3
HAMG 2307	Hospitality Marketing and Sales	3
RSTO 1221	Menu Management	2

Third Semester		
RSTO 1325	Purchasing for Hospitality Operations	3
HAMG 2301	Principles of Food and Beverage Operations	3
RSTO 1313	Hospitality Supervision	3
RSTO 1204	Dining Room Service	2
ELCT	CHEF/PSTR	3
Total Hours		**38**

Rooms Division (HRD13)
520904
Certificate of Completion

First Semester		Credit
HAMG 1313	Front Office Procedures	3
HAMG 1321	Intro to the Hospitality Industry	3
HAMG 1342	Guest Room Maintenance	3
HAMG 1340	Hospitality Legal Issues	3

Second Semester		
RSTO 1313	Hospitality Supervision	3
RSTO 1325	Purchasing for Hospitality Operations	3
HAMG 2332	Hospitality Financial Management	3
HAMG 2388	Internship	3
Total Hours		**24**

Food and Beverage Management Specialization (HMF13)
520901
Associate of Applied Science Degree

First Year

First Semester		Credit
CHEF 1305	Sanitation and Safety	3
HAMG 1321	Intro to the Hospitality Industry	3
ELCT	Humanities/Fine Arts Selection	3
HAMG 2307	Hospitality Marketing and Sales	3
ELCT	HAMG/RSTO/TRVM	3

Second Semester		
GOVT 2305	Federal Government	3
HAMG 1324	Hospitality Human Resource Management	3
SPCH	SPCH 1315 or 1321	3
RSTO 1204	Dining Room Service	2
HAMG 2301	Principles of Food and Beverage Operations	3
KINE	Physical Activity Course	1

Second Year

First Semester		
HAMG 2332	Hospitality Financial Management	3
TRVM 2301	Introduction to Convention and Meeting Management	3
ENGL 1301	Composition I	3
RSTO 2301	Principles of Food and Beverage Controls	3
RSTO 1301	Beverage Management	3
HAMG 2337	Hospitality Facilities Management	3

Second Semester		
RSTO 1325	Purchasing for Hospitality Operations	3
MATH	MATH 1332 or MATH 1342	3
HAMG 1340	Hospitality Legal Issues	3
RSTO 1313	Hospitality Supervision	3
ELCT	Academic Elective	3
HAMG 2388	Internship	3
Total Hours		**66**

Food and Beverage Management (HMF13)
520905
Certificate of Completion
(Offered at locations outside of Texas under Military Contract Obligation)

Lower Division Major Courses:
Total of 23 credits, select from among the Following courses:

		Credit
CHEF 1305	Sanitation and Safety	3
HAMG 1340	Hospitality Legal Issues	3
HAMG 1324	Hospitality Human Resource Management	3
HAMG 2301	Principles of Food and Beverage Operations	3
RSTO 1204	Dining Room Service	2
RSTO 1313	Hospitality Supervision	3
HAMG 1321	Intro to the Hospitality Industry	3
RSTO 2301	Principles of Food and Beverage Controls	3

Hospitality
Select three of the following courses:

HAMG 1313	Front Office Procedures	3
HAMG 1342	Guest Room Maintenance	3
HAMG 2337	Hospitality Facilities Management	3
HAMG 2372	Hospitality Industry Training	3
TRVM 2301	Introduction to Convention and Meeting Management	3
Total Hours		**32**

Interdisciplinary Studies

The Interdisciplinary Studies Associate of Arts degree offers a wide selection of courses to fulfill degree requirements for students who have special education desires that are not satisfied by other degree programs. Completion of the Core requirements will maximize transfer credit for those students who want to pursue a Baccalaureate degree. Students planning to attend a senior college should coordinate with that senior college to ensure that the courses taken at Central Texas College will fulfill the degree requirements there.

Interdisciplinary Studies (IDST) 240101

Associate of Arts Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Computer Technology	3
Foreign Language (FREN, GERM, SPAN, JAPN)	8
Specialization -University Parallel, Texas Common Course (TCCN)	10
Total Hours	**66**

Kinesiology

Kinesiology (KINE) 310501
Associate of Science

First Year

First Semester			**Credit**
ENGL	1301	Composition I	3
HIST	1301	United States History I	3
MATH	1414	College Algebra	4
PSYC	1300	Learning Frameworks	3
KINE	1301	Intro to Physical Fitness & Sport	3
KINE		Physical Activity Course	1
Second Semester			
ENGL	1302	Composition II	3
HIST	1302	United States History II	3
ELCT		Language, Philosophy & Culture	3
KINE	1306	First Aid	3
KINE		Physical Activity Course	1

Second Year

First Semester			
ELCT		Science Selection (BIOL 2401 recommended)	4
GOVT	2305	Federal Government	3
ELEC		Creative Arts	3
KINE	1304	Personal/Community Health I	3
KINE		Physical Activity Course	1
Second Semester			
ELCT		Science Selection (BIOL 2402 recommended)	4
GOVT	2306	Texas Government	3
ELCT		Social/Behavioral Science Selection	3
KINE	1321	Coaching/Sports/Athletics I	3
KINE	1338	Concepts of Physical Fitness	3
Total Hours			**60**

Legal Assistant

The Paralegal/Legal Assistant curriculum is designed primarily for persons who seek full or part-time employment as paralegals. The curriculum also serves students who are exploring their interest in law related careers, including as lawyers. The 2-year program culminates in an Associate of Applied Science Degree. Students may start in the program in any of the three semesters and each semester, one or more classes are offered online.

Paralegal/Legal Assistant (LAS14) 220302
Associate of Applied Science Degree

First Year

First Semester			**Credit**
LGLA	1301	Legal Research and Writing	3
LGLA	1307	Introduction to Law and the Legal Profession	3
ENGL	1301	Composition I	3
ELCT		Humanities/Fine Arts Selection	3
ELCT		ITSW 1401 or ITSC 1409	4
Second Semester			
LGLA	1317	Law Office Technology	3
LGLA	1345	Civil Litigation	3
LGLA	1351	Contracts	3
LGLA	1355	Family Law	3
MATH		MATH 1324 or 1342 or 1332	3
SPCH		SPCH 1315 or 1321	3

Second Year

First Semester			
LGLA	1353	Wills, Trusts, and Probate Administration	3
POFT	1207	Proofreading and Editing	2
LGLA	2303	Torts and Personal Injury Law	3
POFT	1329	Beginning Keyboarding	
or			
POFT	2312	Business Correspondence and Communication	3
GOVT	2305	Federal Government	3
Second Semester			
LGLA	2313	Criminal Law and Procedures	3
POFT	1309	Administrative Office Procedures I	3
LGLA		Legal Elective	3
LGLA		Legal Elective	3
LGLA	2333	Advanced Legal Document Preparation	
or			
LGLA	2335	Advanced Civil Litigation	3
Total Hours			**63**

Maintenance Technology

This program is for the student who wishes to enter a Building Trades (Construction or Maintenance) career field. The program provides entry-level, industry-validated, hands-on instruction that prepares the student to enter and be successful in the job market.

Studies in the Maintenance Technology AAS degree include basic shop skills; electrical wiring; plumbing; painting and refinishing (interior and exterior); carpentry to include roofing, flooring, walls, doors, and windows, cabinets; welding; estimating; blueprint reading; and air conditioning/heating.

The certificates of completion within this program may be completed through the Vocational Skills Center. The Vocational Skills Center offers students instruction through a self-paced, open-entry delivery format. This instructional clock hour format provides flexibility to accommodate the special needs of the student.

Maintenance Technology (MTN12) 460401

Associate of Applied Science Degree

First Year

First Semester			**Credit**
CRPT	1429	Introduction to Carpentry	4
HART	1407	Refrigeration Principles	4
or			
WDWK	1413	Cabinet Making I	
CRPT	1423	Floor Systems	4
MATH	1332	Contemporary Mathematics	3
KINE		Physical Activity Course	1

Second Semester			
ELPT	1411	Basic Electrical Theory	4
ELPT	1429	Residential Wiring	4
ENGL	1301	Composition I	3
CRPT	1415	Wall Systems	4
ELEC		Humanities/Fine Arts Selection	3

Second Year

First Semester			
CRPT	1411	Roof Systems	4
PFPB	2409	Residential Construction Plumbing I	4
HART	1445	Gas and Electric Heating	4
or			
WDWK	2451	Cabinet Making II	
ELEC		Computer Technology Skills	4
GOVT	2305	Federal Government	3

Second Semester			
CBFM	1334	Interior and Exterior Painting and Refinishing	3
HART	1401	Basic Electricity for HVAC	4
or			
CNBT	1446	Construction Estimating I	
MBST	1507	Masonry I	5
SPCH		SPCH 1315 or 1321	3
PFPB	2445	Residential Construction Plumbing II	
or			
CBFM	2487	Internship	4
Total Hours			**72**

Building Trades (MTBT) 460401

Certificate of Completion

First Semester			**Cr/Clock**
CRPT	1429	Introduction to Carpentry	4/96
CRPT	1423	Floor Systems	4/96
CRPT	1415	Wall Systems	4/96
CRPT	1411	Roof Systems	4/96

Second Semester			
CBFM	1334	Interior and Exterior Painting and Refinishing	3/96
WDWK	1413	Cabinet Making I	4/112
WDWK	2451	Cabinet Making II	4/96
MBST	1507	Masonry I	5/144
ELPT	1411	Basic Electrical Theory	4/96

Third Semester			
ELPT	1429	Residential Wiring	4/96
PFPB	2409	Residential Construction Plumbing I	4/96
PFPB	2445	Residential Construction Plumbing II	4/96
CNBT	1446	Construction Estimating I	4/96
or			
CBFM	2487	Internship	4/304
Total Hours			**52**
Total Clock Hours			**1312/1520**

Carpentry Trades (MTCA) 460401

Certificate of Completion

First Semester			**Cr/Clock**
CRPT	1429	Introduction to Carpentry	4/96
CRPT	1423	Floor Systems	4/96
CRPT	1415	Wall Systems	4/96
CRPT	1411	Roof Systems	4/96

Second Semester			
CBFM	1334	Interior and Exterior Painting and Refinishing	3/96
WDWK	1413	Cabinet Making I	4/112
WDWK	2451	Cabinet Making II	4/96
CNBT	1446	Construction Estimating I	4/96
or			
CBFM	2487	Internship	4/304
Total Hours			**31**
Total Clock Hours			**784/992**

Construction Trades (MTCO) 460401

Certificate of Completion

First Semester			**Cr/Clock**
CRPT	1429	Introduction to Carpentry	4/96
MBST	1507	Masonry I	5/144
ELPT	1411	Basic Electrical Theory	4/96
ELPT	1429	Residential Wiring	4/96

Second Semester			
PFPB	2409	Residential Construction Plumbing I	4/96
PFPB	2445	Residential Construction Plumbing II	4/96
CNBT	1446	Construction Estimating I	4/96
or			
CBFM	2487	Internship	4/304
Total Hours			**29**
Total Clock Hours			**720/928**

Residential Construction (MTRC) 460401

Certificate of Completion

(Brady Campus Only)

First Semester			Credit
CRPT	1423	Floor Systems	4
CRPT	1415	Wall Systems	4
CRPT	1411	Roof Systems	4
CBFM	1334	Interior and Exterior Painting and Refinishing	3
Second Semester			
WDWK	2451	Cabinet Making II	4
MBST	1507	Masonry I	5
ELPT	1429	Residential Wiring	4
PFPB	2409	Residential Construction Plumbing I	4
Total Hours			**32**

Mathematics

The Associate of Science degree in Mathematics is designed for the student wishing to pursue a Baccalaureate degree. The Central Texas College curriculum is designed to maximize the transfer of lower level course work to the Baccalaureate degree granting public education institution within the State of Texas.

Mathematics (MA14) 270101

Associate of Science Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Mathematics Selection (MATH 2413 and MATH 2414)	8
Natural Science Selection (BIOL, CHEM, PHYS, GEOL)	4
Mathematics Specialization	7
Total Hours	**64**

MATH 2318 Linear Algebra, MATH 2412 Precalculus Math, MATH 2415 Calculus III.

Medical Laboratory Technician

Medical laboratory Technology, also known as Clinical Laboratory Scientist is a challenging and rewarding field. Medical laboratory Technicians, along with Medical Technologist, utilize the latest in modern instrumentation and test procedures to aid the physician in the detection, diagnosis and treatment of disease.

Medical Laboratory Technician (MLAB) 511004

Associate of Applied Science Degree

Departmental approval is required for admission into the Medical Laboratory Technician/Clinical laboratory Technician (MLT/CLT) program. MLT/CLT application, physical form, immunizations, academic records are required BEFORE you schedule your pre-admission interview with the Program Director. CPR, negative Drug Screen (11 panel), negative Criminal Background check are required BEFORE you register for clinical courses. Clinical sites and times are subject to change. Please come to Science Building 150, room 1028 or call 526-1883 for application and forms. More information can be found under Departmental Admissions Requirements.

The Medical Laboratory Technician program at CTC is accredited by the National Accrediting Agency for Clinical Laboratory Sciences programs, 5600 N. River Road, Suite 72, Rosemont, IL 60018. (773) 714-8880. Upon completion of the program, students are eligible to take a national credentialing examination.

First Year

First Semester			Credit
MLAB	1201	Intro to Clinical Laboratory Science	2
MLAB	1211	Urinalysis and Body Fluids	2
BIOL	2401	Anatomy and Physiology I*	4
CHEM	1411	General Chemistry I*	4
MATH	1414	College Algebra	4
Second Semester			
MLAB	1415	Hematology	4
BIOL	2402	Anatomy and Physiology II*	4
CHEM	1412	General Chemistry II*	4
ITSC	1409	Integrated Software Applications I	4
Third Semester			
MLAB	2561	Clinical I -MLT	5

Second Year

First Semester			
MLAB	2460	Clinical II-MLT	4
MLAB	2434	Clinical Microbiology	4
MLAB	2431	Immunohematology	4
ENGL	1301	Composition I	3
ELCT		Humanities/Fine Arts Selection	3
Second Semester			
MLAB	1331	Parasitology/Mycology	3
MLAB	2401	Clinical Chemistry	4
MLAB	2461	Clinical III-MLT	4
ELCT		PSYC 2301 or SOCI 1301	3
SPCH		SPCH 1315 or 1321	3
Total Hours			**72**

* Credit in Science and MLAB courses must have been received within 5 years prior to enrollment in MLAB 1201/1211.

Phlebotomy (PLMS) 511009

Noncredit Marketable Skills Achievement

		CEU	Contact Hours
PLAB 1023	Basic Phlebotomy	6	60
PLAB 1060	Clinical-Phlebotomy/ Phlebotomist	12	120
Total Hours		**18**	**180**

Mental Health Services

The Mental Health Services program offers Associate of Applied Science degrees and Certificates of Completion in the specialized areas of, Chemical Dependency, At Risk Youth, Social Work and Criminal Justice Addictions. These degrees and certificates are designed for students seeking employment in Mental Health related career fields. Employment opportunities in the Mental Health Services field are expected to rise due to the increased number of older persons, many of whom will require mental health services; increased public acceptance of formal treatment for substance abuse; and a lessening of the stigma attached to those receiving mental health care. Additionally, CTC's Associate of Applied Science degrees and certificates lay the foundation for those students wishing to pursue a Baccalaureate degree in Mental Health related career fields.

At Risk Youth Specialization (MHA13) 511503

Associate of Applied Science Degree

First Year

First Semester			Credit
PSYT	1329	Interviewing & Communication Skills	3
DAAC	1319	Introduction to Alcohol and Other Drug Addictions	3
DAAC	1304	Pharmacology of Addiction	3
PSYC	1300	Learning Frameworks	3
PSYT	1309	Health Psychology	3

Second Semester			
CMSW	1309	Problems of Children & Adolescents	3
CMSW	1166	Practicum	1
GOVT	2305	Federal Government	3
ENGL	1301	Composition I	3
PSYC	2301	General Psychology	3
PSYT	2321	Crisis Intervention	3

Third Semester

Second Year

First Semester			
ENGL	1302	Composition II	3
DAAC	2307	Addicted Family Intervention	3
DAAC	1311	Counseling Theories	3
PSYT	2331	Abnormal Psychology	3
SPCH		SPCH 1315 or 1321	3
DAAC	2354	Dynamics of Group Counseling	3

Second Semester			
MATH	1414	College Algebra	4
PSYT	2345	Principles of Behavior Management and Modification	3
SCWK	2301	Assessment and Case Management	3
CMSW	1167	Practicum	1
ELCT		Humanities/Visual/Performing Arts Selection	3
Total Hours			**63**

At Risk Youth Advanced Certificate (MHA14) 511503

Certificate of Completion

First Semester			Credit
PSYT	1329	Interviewing & Communication Skills	3
DAAC	1319	Introduction to Alcohol and Other Drug Addictions	3
DAAC	1304	Pharmacology of Addiction	3
PSYC	1300	Learning Frameworks	3
PSYT	1309	Health Psychology	3

Second Semester			
CMSW	1309	Problems of Children and Adolescents	3
CMSW	1166	Practicum	1
DAAC	2306	Substance Abuse Prevention I	3
PSYT	2321	Crisis Intervention	3
DAAC	2307	Addicted Family Intervention	3
PSYT	2331	Abnormal Psychology	3

Third Semester			
DAAC	1311	Counseling Theories	3
DAAC	2354	Dynamics of Group Counseling	3
PSYT	2345	Principles of Behavior Management and Modification	3

Second Year

First Semester			
SCWK	2301	Assessment and Case Management	3
CMSW	1167	Practicum	1
Total Hours			**44**

Chemical Dependency Specialization (MHC14) 511503

Associate of Applied Science Degree

First Year

First Semester			Credit
PSYT	1329	Interviewing & Communication Skills	3
DAAC	1319	Introduction to Alcohol and Other Drug Addictions	3
DAAC	1304	Pharmacology of Addiction	3
PSYC	1300	Learning Frameworks	3
PSYT	1309	Health Psychology	3

Second Semester			
CMSW	1309	Problems of Children and Adolescents	3
CMSW	1166	Practicum	1
DAAC	1309	Assessment Skills of Alcohol and Other Drug Addictions	3
ENGL	1301	Composition I	3
PSYC	2301	General Psychology	3
PSYT	2321	Crisis Intervention	3

Second Year

First Semester			
ENGL	1302	Composition II	3
DAAC	2307	Addicted Family Intervention	3
DAAC	1311	Counseling Theories	3
PSYT	2331	Abnormal Psychology	3
SPCH		SPCH 1315 or 1321	3
DAAC	2354	Dynamics of Group Counseling	3

Second Semester

MATH 1414	College Algebra	4
PSYT 2345	Principles of Behavior Management and Modification	3
DAAC 2341	Counseling Alcohol and Other Drug Addictions	3
DAAC 2367	Practicum	3
ELCT	Humanities/Visual/Performing Arts Selection	3
Total Hours		**65**

Chemical Dependency Counseling (MHC14) 511503

Certificate of Completion

First Semester		**Credit**
PSYT 1329	Interviewing & Communication Skills	3
DAAC 1319	Introduction to Alcohol and Other Drug Addictions	3
DAAC 1304	Pharmacology of Addiction	3
PSYC 1300	Learning Frameworks	3
PSYT 1309	Health Psychology	3

Second Semester

CMSW 1309	Problems of Children and Adolescents	3
CMSW 1166	Practicum	1
DAAC 1309	Assessment Skill of Alcohol and Other Drug Addictions	3
PSYT 2321	Crisis Intervention	3
DAAC 2307	Addicted Family Intervention	3
DAAC 1311	Counseling Theories	3

Third Semester

PSYT 2331	Abnormal Psychology	3
DAAC 2354	Dynamics of Group Counseling	3
PSYT 2345	Principles of Behavior Management and Modification	3

Second Year

First Semester

DAAC 2341	Counseling Alcohol and Other Drug Addictions	3
DAAC 2367	Practicum	3
Total Hours		**46**

Criminal Justice Addictions (MCJ13) 511503

Certificate of Completion

First Semester		**Credit**
PSYT 1329	Interviewing & Communications Skills	3
DAAC 1319	Introduction to Alcohol & Other Drug Addictions	3
DAAC 1304	Pharmacology of Addiction	3
PSYC 1300	Learning Frameworks	3
PSYT 1309	Health Psychology	3

Second Semester

CMSW 1309	Problems of Children & Adolescents	3
CMSW 1166	Practicum	1
DAAC 1309	Assessment Skill of Alcohol & Other Drug Addictions	3
PSYT 2321	Crisis Intervention	3
DAAC 2307	Addicted Family Intervention	3
PSYT 2331	Abnormal Psychology	3

Third Semester

PSYT 2345	Principles of Behavior Management and Modification	3
DAAC 2354	Dynamics of Group Counseling	3
DAAC 2301	Therapeutic Communities in a Criminal Justice Setting	3

Second Year

First Semester

DAAC 2341	Counseling Alcohol & Other Drug Addictions	3
DAAC 2367	Practicum	3
Total Hours		**46**

Social Work Specialization (MHS14) 511503

Associate of Applied Science

First Year

First Semester		**Credit**
PSYT 1329	Interviewing & Communications Skills	3
DAAC 1319	Introduction to Alcohol and Other Drug Addictions	3
DAAC 1304	Pharmacology of Addiction	3
PSYC 1300	Learning Frameworks	3
PSYT 1309	Health Psychology	3

Second Semester

CMSW 1309	Problems of Children & Adolescents	3
CMSW 1166	Practicum	1
ENGL 1301	Composition I	3
PSYC 2301	General Psychology	3

Third Semester

PSYT 2331	Abnormal Psychology	3
ENGL 1302	Composition II	3
SPCH	SPCH 1315 or 1321	3

Second Year

First Semester

SCWK 2301	Assessment & Case Management	3
SOCW 2361	Introduction to Social Work	3
DAAC 1311	Counseling Theories	3
PSYT 2321	Crisis Intervention	3
DAAC 2354	Dynamics of Group Counseling	3

Second Semester

MATH 1414	College Algebra	4
SOCW 2362	Social Welfare as a Social Institution	3
CMSW 1167	Practicum	1
GOVT 2305	Federal Government	3
ELCT	Humanities/Visual/Performing Arts Selection	3
Total Hours		**63**

Basic Mental Health Professional (MHBP) 511501

Certificate of Completion

First Semester		**Credit**
PSYT 1329	Interviewing & Communications Skills	3
DAAC 1319	Introduction to Alcohol & Other Drug Addictions	3
DAAC 1304	Pharmacology of Addiction	3
PSYC 1300	Learning Frameworks	3
PSYT 1309	Health Psychology	3

Second Semester

CMSW 1309	Problems of Children & Adolescents	3
CMSW 1166	Practicum	1
Total Hours		**19**

Substance Abuse Prevention Specialist (MHP14) 511501
Certificate of Completion

First Semester			Credit
PSYT	1329	Interviewing & Communications Skills	3
DAAC	1319	Introduction to Alcohol & Other Drug Addictions	3
DAAC	1304	Pharmacology of Addiction	3
PSYC	1300	Learning Frameworks	3
PSYT	1309	Health Psychology	3
Second Semester			
CMSW	1309	Problems of Children & Adolescents	3
CMSW	1166	Practicum	1
DAAC	2306	Substance Abuse Prevention I	3
PSYT	2321	Crisis Intervention	3
DAAC	2307	Addicted Family Intervention	3
Third Semester			
DAAC	2353	Substance Abuse Prevention II	3
PSYT	2345	Principles of Behavior Management and Modification	3
DAAC	1167	Practicum	1
Total Hours			**35**

Department of Nursing

Nursing Associate Degree (NUA14) 513801
Associate of Applied Science Degree

The Nursing Associate Degree program is accredited by the Accreditation Commission in Nursing, Inc. (ACEN), Sharon J. Tanner, EdD, RN, Executive Director, 3343 Peachtree Road, NE, Suite 500; Atlanta, GA 30326; P. 404-975-5000, F. 404-975-5020, www.nlnac.org.

The Nursing Associate Degree is a prelicensure nursing program which enables the graduate to sit the National Council Licensure Examination-Registered Nurse (NLCEX-RN®) and prepares graduates for professional practice in a variety of health care settings. The A.D.N. program provides classroom instruction and coordinated supervised clinical experiences in the nursing care of clients in local affiliated health care agencies. The CTC A.D.N. program is approved by the Texas Board of Nursing (TBON) and is fully accredited by the Accreditation Commission for Education in Nursing, Inc. (ACEN).

First Semester			Credit
RNSG	1209	Introduction to Nursing	2
BIOL	2401	Anatomy and Physiology I	4
ELCT		CHEM 1406/1411 or MATH 1414	4
ENGL	1301	Composition I	3
Second Semester			
RNSG	1105	Nursing Skills I	1
RNSG	1115	Health Assessment	1
RNSG	1301	Pharmacology	3
RNSG	1413	Foundations for Nursing Practice	4
RNSG	1262	Clinical -Nursing I	2
BIOL	2402	Anatomy and Physiology II	4
Third Semester			
RNSG	1331	Principles of Clinical Decision Making	3
RNSG	1251	Care of the Childbearing Family	2
RNSG	2213	Mental Health Nursing	2
RNSG	1363	Clinical-Nursing II	3
PSYC	2301	General Psychology	3
BIOL	2420	Microbiology for Non-science Majors**	4
Fourth Semester			
RNSG	1347	Concepts of Clinical Decision Making	3
RNSG	2201	Care of Children and Families	2
RNSG	2362	Clinical-Nursing III	3
SPCH		SPCH 1315, 1318 or 1321	3
PSYC	2314	Life Span Growth and Development	3
Fifth Semester			
RNSG	2331	Advanced Concepts of Adult Health	3
RNSG	2221	Management of Client Care	2
RNSG	2363	Clinical-Nursing IV	3
ELCT		Humanities/Fine Arts Selection	3
KINE		Physical Activity Course	1
Total Hours			**71**

* If Microbiology 2420 or 2421 is completed successfully prior to the second semester, elective credit may be granted for BIOL 1406 in place of CHEM 1406, CHEM 1411 or MATH 1414.
** Biology 2421 may be accepted in lieu of BIOL 2420.

Nursing Option for Articulating Student (NOA14) 513801
Associate of Applied Science Degree

First Year

First Semester			Credit
BIOL	2401	Anatomy and Physiology I	4
ENGL	1301	Composition I	3
ELCT		CHEM 1406/1411 or MATH 1414	4
PSYC	2301	General Psychology	3
Second Semester			
BIOL	2402	Anatomy and Physiology II	4
BIOL	2420	Microbiology for Non-science Majors***	4
RNSG	1229	Integrated Nursing Skills II (RNSG 1413, 1105, 1115, 1262)* - (8)	2

Second Year (Acceptance into ADN program)

Third Semester			
RNSG	2213	Mental Health Nursing	2
RNSG	1301	Pharmacology	3
RNSG	1251	Care of the Childbearing Family	2
RNSG	1363	Clinical II	3
RNSG	1331	Principles of Clinical Decision Making	3
Fourth Semester			
PSYC	2314	Life Span Growth and Development	3
RNSG	1347	Concepts of Clinical Decision Making	3
RNSG	2201	Care of Children and Families	2
RNSG	2362	Clinical - Nursing III	3
SPCH		SPCH 1315, 1318 or 1321	3

Fifth Semester

RNSG 2331	Advanced Concepts of Adult Health	3
RNSG 2221	Management of Client Care	2
RNSG 2363	Clinical-Nursing IV	3
ELCT	Humanities/Fine Arts Selection	3
KINE	Physical Activity Course	1
Total Hours		**71**

* Upon successful completion of the last semester, Articulation Students will receive credit for RNSG 1413, 1105, 1115 and 1262.
** If Microbiology 2420 or 2421 is completed successfully prior to the second semester, elective credit may be granted for BIOL 1406 in place of CHEM 1406, CHEM 1411 or MATH 1414.
*** Biology 2421 may be accepted in lieu of BIOL 2420.

Vocational Nursing (NUVF2) 513901

Certificate of Completion Fall Admission

A 12 month certificate program which enables the graduate to sit the National Council Licensure Examination-Practical Nurse (NLCEX-PN®) and prepares graduates for practical/vocational nursing practice in a variety of health care settings. The V.N. program provides classroom instruction and coordinated supervised clinical experiences in the nursing care of clients in local affiliated health care agencies. The CTC V.N. program is approved by the Texas Board of Nursing (TBON)

First Semester		**Credit**
VNSG 1304	Foundations of Nursing	3
VNSG 1405	Health Science	4
VNSG 1323	Basic Nursing Skills	3
VNSG 1227	Essentials of Medication Administration	2
VNSG 1222	Vocational Nursing Concepts	2
VNSG 1136	Mental Health	1
VNSG 2331	Advanced Nursing Skills	3
VNSG 1126	Gerontology	1
VNSG 1116	Nutrition	1
VNSG 1160	Clinical-Practical Nurse I	1
Second Semester		
VNSG 1400	Nursing in Health and Illness I	4
VNSG 1238	Mental Illness	2
VNSG 1219	Leadership and Professional Development	2
VNSG 1409	Nursing in Health and Illness II	4
VNSG 1231	Pharmacology	2
VNSG 1560	Clinical-Practical Nurse II	5
Third Semester		
VNSG 1330	Maternal/Neonatal Nursing	3
VNSG 1334	Pediatrics	3
VNSG 1410	Nursing in Health and Illness III	4
VNSG 2360	Clinical-Practical Nurse III	3
Total Hours		**53**

Vocational Nursing (NUVS2) 513901

Certificate of Completion Spring Admission

A 12 month certificate program which enables the graduate to sit the National Council Licensure Examination-Practical Nurse (NLCEX-PN®) and prepares graduates for practical/vocational nursing practice in a variety of health care settings. The V.N. program provides classroom instruction and coordinated supervised clinical experiences in the nursing care of clients in local affiliated health care agencies. The CTC V.N. program is approved by the Texas Board of Nursing (TBON)

First Semester		**Credit**
VNSG 1304	Foundations of Nursing	3
VNSG 1405	Health Science	4
VNSG 1323	Basic Nursing Skills	3
VNSG 1227	Essentials of Medication Administration	2
VNSG 1222	Vocational Nursing Concepts	2
VNSG 1136	Mental Health	1
VNSG 2331	Advanced Nursing Skills	3
VNSG 1126	Gerontology	1
VNSG 1116	Nutrition	1
VNSG 1160	Clinical-Practical Nurse I	1
Second Semester		
VNSG 1330	Maternal/Neonatal Nursing	3
VNSG 1334	Pediatrics	3
VNSG 1400	Nursing in Health and Illness I	4
VNSG 1360	Clinical-Practical Nurse II	3
Third Semester		
VNSG 1238	Mental Illness	2
VNSG 1219	Leadership and Professional Development	2
VNSG 1231	Pharmacology	2
VNSG 1409	Nursing in Health and Illness II	4
VNSG 1410	Nursing in Health and Illness III	4
VNSG 2560	Clinical-Practical Nurse III	5
Total Hours		**53**

Office Technology

The Office Technology Department offers educational paths for meaningful careers in professional and health-related office settings. Students master state-of-the-art computer software applications as well as communication and interpersonal skills to equip them for employment in the global workforce.

Four of the Office Technology certificates of completion within this program may be completed through the Vocational Skills Center. The Vocational Skills Center offers students instruction through a self-paced, open-entry delivery format. This instructional clock hour format provides flexibility to accommodate the special needs of the student.

Executive Assistant (OTE12) 520401

Associate of Applied Science Degree

First Year

First Semester			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1301	Business English	3
POFT	1309	Administrative Office Procedures I	3
POFT	1319	Records & Information Management I	3
KINE		Physical Activity Course	1

Second Semester			
POFI	2301	Word Processing	3
POFT	1325	Business Math Using Technology	3
MATH	1414	College Algebra	4
ENGL	1301	Composition I	3
POFT	2312	Business Correspondence and Communication	3
ELCT		POFI/POFT/POFM/HITT Selection	3

Second Year

First Semester			
POFI	2331	Desktop Publishing	3
ELCT		Humanities/Fine Arts Selection	3
SPCH		SPCH 1315 or 1321	3
KINE		Physical Activity Course	1
ELCT		POFI/POFT Internship Selection	3

Second Semester			
POFI	1349	Spreadsheets	3
POFT	1349	Administrative Office Procedures II	3
POFT	2333	Advanced Keyboarding	3
or			
POFI	2340	Advanced Word Processing	
ELCT		Social/Behavioral Science Selection	3
ELCT		POFI/POFT Internship Selection	3
Total Hours			**63**

Administrative Support (OTA12) 520401

Certificate of Completion

First Semester			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1301	Business English	3
POFT	1309	Administrative Office Procedures I	3
POFT	1319	Records & Information Management I	3

Second Semester			
POFI	2301	Word Processing	3
POFT	1325	Business Math Using Technology	3
MATH	1414	College Algebra	4
ENGL	1301	Composition I	3
POFT	2312	Business Correspondence and Communication	3
ELCT		POFI/POFT/POFM/HITT Selection	3

Third Semester			
POFI	2331	Desktop Publishing	3
POFI	1349	Spreadsheets	3
SPCH		SPCH 1315 or 1321	3
ELCT		POFI/POFT Internship Selection	
3			
Total Hours			**46**

General Office Assistant (OTG12) 520401

Certificate of Completion

(Offered at Texas Department of Criminal Justice Gatesville, Texas, Only)

First Semester			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1309	Administrative Office Procedures I	3
POFT	1301	Business English	3

Second Semester			
POFT	1325	Business Math Using Technology	3
POFT	1319	Records & Information Management I	3
POFT	2312	Business Correspondence and Communication	3

Third Semester			
POFI	2301	Word Processing	3
POFT	1349	Administrative Office Procedures II	
or			
POFI	2331	Desktop Publishing	3
POFI	1349	Spreadsheets	3
Total Hours			**30**

Office Assistant (OTOA) 520401

Certificate of Completion

First Semester			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1301	Business English	3
POFT	1309	Administrative Office Procedures I	3
POFT	1319	Records & Information Management I	3

Second Semester			
POFI	2301	Word Processing	3
POFT	1325	Business Math Using Technology	3
POFI	1349	Spreadsheets	3
ENGL	1301	Composition I	3
ELCT		POFI/POFT/POFM/HITT Selection	3
ELCT		POFI/POFT Internship Selection	3
Total Hours			**33**

Office Management (OTO12) 520401

Associate of Applied Science Degree

First Year

First Semester			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1301	Business English	3
BMGT	1327	Principles of Management	3
POFT	1309	Administrative Office Procedures I	3
KINE		Physical Activity Course	1

Second Semester			
POFI	2301	Word Processing	3
POFT	1319	Records & Information Management I	3
POFT	2312	Business Correspondence and Communication	3
BMGT	1325	Office Management	3
ENGL	1301	Composition I	3
POFT	1325	Business Math Using Technology	3

Second Year

First Semester

POFI	1349	Spreadsheets	3
MATH	1414	College Algebra	4
SPCH		SPCH 1315 or 1321	3
KINE		Physical Activity Course	1
ELCT		POFI/POFT/POFM/HITT Selection	3

Second Semester

POFT	1349	Administrative Office Procedures II	3
HRPO	2301	Human Resources Management	3
ELCT		Social/Behavioral Science Selection	3
ELCT		Humanities/Fine Arts Selection	3
ELCT		POFI/POFT Internship Selection	3
Total Hours			**63**

Office Management (OTM12) 520401

Certificate of Completion

First Year

First Semester			**Credit**
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1301	Business English	3
BMGT	1327	Principles of Management	3
POFT	1309	Administrative Office Procedures I	3

Second Semester

POFI	2301	Word Processing	3
POFT	1319	Records & Information Management I	3
POFT	2312	Business Correspondence and Communication	3
BMGT	1325	Office Management	3
POFT	1325	Business Math Using Technology	3

Second Year

First Semester

POFI	1349	Spreadsheets	3
SPCH		SPCH 1315 or 1321	3
ELCT		POFI/POFT/POFM/HITT Selection	3

Second Semester

POFT	1349	Administrative Office Procedures II	3
ELCT		Social/Behavioral Science Selection	3
ELCT		POFI/POFT Internship Selection	3
Total Hours			**48**

Office Management (OTOM) 520401

Certificate of Completion

First Semester			**Credit**
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1301	Business English	3
BMGT	1327	Principles of Management	3
POFT	1309	Administrative Office Procedures I	3

Second Semester

POFI	2301	Word Processing	3
POFT	1319	Records & Information Management I	3
POFT	2312	Business Correspondence and Communication	3
POFT	1325	Business Math Using Technology	3
BMGT	1325	Office Management	3
ELCT		POFI/POFT Internship Selection	3
Total Hours			**33**

Software Applications Specialist (OTSA) 520407

Certificate of Completion

			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFI	2301	Word Processing	3
POFT	2333	Advanced Keyboarding	
or			
POFI	2340	Advanced Word Processing	3
POFI	1349	Spreadsheets	3
Total Hours			**15**

Office Information Management (OTI12) 520407

Certificate of Completion

(Courses offered in the self-paced delivery format only)

First Semester			**Cr/Clock**
POFT	1329	Beginning Keyboarding	3/96
POFT	1309	Administrative Office Procedures I	3/96
POFT	1301	Business English	3/96

Second Semester

POFI	1301	Computer Applications I	3/96
POFT	2312	Business Correspondence and Communication	3/96
POFI	2301	Word Processing	3/96

Third Semester

POFT	1325	Business Math Using Technology	3/96
POFT	1319	Records & Information Management I	3/96
POFI	2331	Desktop Publishing	3/96

Fourth Semester

POFI	1349	Spreadsheets	3/96
POFT	2333	Advanced Keyboarding	3/96
POFT	1349	Administrative Office Procedures II	3/96
POFT	2388	Internship	3/144
Total Hours			**39**
Total Clock Hours			**1296**

Health Management Related

Health Information Management (OTH13) 510716

Certificate of Completion

(Courses offered in the self-paced delivery format only)

First Semester			**Cr/Clock**
POFT	1329	Beginning Keyboarding	3/96
POFM	1317	Medical Administrative Support	3/96
POFT	1301	Business English	3/96

Second Semester

POFI	1301	Computer Applications I	3/96
POFT	2312	Business Correspondence and Communication	3/96
HITT	1305	Medical Terminology I	3/96

Third Semester

POFI	2301	Word Processing	3/96
POFT	1319	Records & Information Mgmt I	3/96
HITT	1303	Medical Terminology II	3/96
POFI	1349	Spreadsheets	3/96

Fourth Semester

HITT	1301	Health Data Content and Structure	3/96
HITT	1341	Coding and Classification Systems	3/96
POFM	2386	Internship	3/144
Total Hours			**39**
Total Clock Hours			**1296**

Medical Secretary (OTM7) 510716

Certificate of Completion

(Courses offered in the self-paced delivery format only)

First Semester			**Cr/Clock**
POFT	1329	Beginning Keyboarding	3/96
POFM	1317	Medical Administrative Support	3/96
POFT	1301	Business English	3/96

Second Semester

POFI	1301	Computer Applications I	3/96
POFT	2312	Business Correspondence and Communication	3/96
HITT	1305	Medical Terminology I	3/96

Third Semester

POFI	2301	Word Processing	3/96
POFT	1319	Records & Information Mgmt I	3/96
HITT	1303	Medical Terminology II	3/96
MRMT	1307	Medical Transcription I	3/96

Fourth Semester

POFT	2333	Advanced Keyboarding	3/96
MRMT	2333	Medical Transcription II	3/96
POFM	2387	Internship	3/144
Total Hours			**39**
Total Clock Hours			**1296**

Medical Office Specialist (OTMO) 510716

Certificate of Completion

(Courses offered in both the self-paced and online delivery formats)

First Semester			**Cr/Clock**
POFT	1329	Beginning Keyboarding	3/96
POFM	1317	Medical Administrative Support	3/96
POFT	1301	Business English	3/96

Second Semester

POFI	1301	Computer Applications I	3/96
POFT	2312	Business Correspondence and Communication	3/96
HITT	1305	Medical Terminology I	3/96

Third Semester

POFI	2301	Word Processing	3/96
POFT	1319	Records & Information Mgmt I	3/96
POFT	1325	Business Math Using Technology	3/96
POFI	1349	Spreadsheets	3/96

Fourth Semester

POFM	1302	Medical Software Applications	3/96
POFM	1327	Medical Insurance	3/96
POFI	2386	Internship	3/144
Total Hours			**39**
Total Clock Hours			**1296**

Medical Coding and Billing (OTMC) 510713

Certificate of Completion

(Courses offered in the online delivery format only)

First Semester			**Credit**
POFI	1301	Computer Applications I	3
HITT	1305	Medical Terminology I	3
POFT	1301	Business English	3
HITT	1301	Health Data Content & Structure	3

Second Semester

HITT	1303	Medical Terminology II	3
POFM	1302	Medical Software Applications	3
POFM	1327	Medical Insurance	3
HITT	1341	Coding and Classification Systems	3

Third Semester

MDCA	1302	Human Disease/Pathophysiology	3
HITT	1249	Pharmacology	2
HITT	2335	Coding and Reimbursement Methodologies	3
POFM	2310	Intermediate Medical Coding	3

Fourth Semester

HITT	2346	Advanced Medical Coding	3
HITT	2166	Practicum/Field Experience	1
Total Hours			**39**

Medical Transcription (OTMT) 510716

Certificate of Completion

(Courses offered in the online delivery format only)

First Semester			**Credit**
POFT	1329	Beginning Keyboarding	3
POFM	1317	Medical Administrative Support	3
HITT	1305	Medical Terminology I	3
MRMT	1307	Medical Transcription I	3

Second Semester

POFT	1301	Business English	3
POFI	2301	Word Processing	3
HITT	1303	Medical Terminology II	3
MRMT	2333	Medical Transcription II	3
POFT	1207	Proofreading and Editing	2

Third Semester

MRMT	2357	Advanced Medical Transcription	3
HITT	1249	Pharmacology	2
MDCA	1409	Anatomy and Physiology for Medical Assistants	4
POFI	1301	Computer Applications I	3

Fourth Semester

MRMT	2166	Practicum	1
Total Hours			**39**

Protective Services

The Protective Services Department follows the principles and guidelines of the Central Texas College mission, utilizing its resources to provide qualified individuals for local, state, national, and international public criminal justice agencies. Further, it assists students in making intelligent career choices and assists the field in providing qualified employees by guaranteeing the performance of its graduates.

Criminal Justice (CJCJ) 430104

Associate of Applied Science Degree

First Year

First Semester		Credit
CJSA1322/CRIJ 1301	Introduction to Criminal Justice	3
CJSA 2300/CRIJ 2323	Legal Aspects of Law Enforcement	3
CJSA 1313/CRIJ 1306	Court Systems and Practices	3
CJSA 1312/CRIJ 1307	Crime in America	3
ENGL 1301	Composition I	3
KINE 1125	Physical Conditioning I	1

Second Semester		
CJSA 1327/CRIJ 1310	Fundamentals of Criminal Law	3
CJSA 1317/CRIJ 1313	Juvenile Justice System	3
CJSA 1348	Ethics in Criminal Justice	3
ENGL	ENGL 1302 or 2311	3
MATH	MATH 1332, 1342 or higher level	3
KINE	Physical Activity Course	1

Second Year

First Semester		
CJSA 1359/CRIJ 2328	Police Systems and Practices	3
CJSA 1342/CRIJ 2314	Criminal Investigation	3
CJSA 1351	Use of Force*	3
ELCT	Criminal Justice Elective	3
SOCI 1301	Introduction to Sociology	3
GOVT 2305	Federal Government	3

Second Semester		
CJSA 2331	Child Abuse, Prevention and Investigation	3
CJLE 1211	Basic Firearms*	2
ELCT	Criminal Justice Elective	3
SPCH	SPCH 1315 or SPCH 1321	3
ELCT	Humanities/Fine Arts Selection	3
ELCT	Computer Technology Skills	3
Total Hours		**67**

* Appropriate Criminal Justice elective selection may substitute.

Criminal Justice - Corrections Specialization (CJCR) 430104

Associate of Applied Science Degree

First Year

First Semester		Credit
CJSA 1322/CRIJ 1301	Introduction to Criminal Justice	3
CJCR 2325	Legal Aspects of Corrections	3
CJSA 1313/CRIJ 1306	Court Systems and Practices	3
CJSA 1312/CRIJ 1307	Crime in America	3
ENGL 1301	Composition I	3
KINE 1125	Physical Conditioning I	1

Second Semester		
CJSA 1327/CRIJ 1310	Fundamentals of Criminal Law	3
CJCR 1304	Probation and Parole	3
CJSA 1348	Ethics in Criminal Justice	3
ENGL	ENGL 1302 or 2311	3
MATH	MATH 1332, 1342 or higher level	3
KINE	Physical Activity Course	1

Second Year

First Semester		
CJCR 1307/CRIJ 2313	Correctional Systems and Practices	3
CJCR 2324/CRIJ 2301	Community Resources in Corrections	3
CJSA 1351	Use of Force*	3
ELCT	Criminal Justice Elective	3
SOCI 1301	Introduction to Sociology	3
GOVT 2305	Federal Government	3

Second Semester		
CJCR 1358	Rights of Prisoners	3
CJLE 1211	Basic Firearms*	2
ELCT	Criminal Justice Elective	3
SPCH	SPCH 1315 or SPCH 1321	3
ELCT	Humanities/Fine Arts Selection	3
ELCT	Computer Technology Skills	3
Total Hours		**67**

* Appropriate Criminal Justice elective selection may substitute.

Criminal Justice Studies with Specialization 430104

Certificate of Completion

First Year

First Semester (Core Courses)		Credit
CJSA 1312/CRIJ 1307	Crime in America	3
CJSA 1313/CRIJ 1306	Court Systems and Practices	3
CJSA 1348	Ethics in Criminal Justice	3
CJSA 1322/CRIJ 1301	Intro to Criminal Justice	3
CJSA 1359/CRIJ 2328	Police Systems and Practices	3
Core Courses Total		**15**

(Criminal Justice Studies Specialization-CJCJ)

Second Semester		
CJSA 1342/CRIJ 2314	Criminal Investigation	3
CJSA 1327/CRIJ 1310	Fundamentals of Criminal Law	3
CJSA 1317/CRIJ 1313	Juvenile Justice System	3
CJSA 2300/CRIJ 2323	Legal Aspects of Law Enforcement	3
ELCT	Criminal Justice Elective	3
Specialization Courses Total		**15**
Certificate Total		**30**

(Criminal Justice Corrections Specialization-CJCR)

Second Semester

CJCR 2325	Legal Aspects of Corrections	3
CJCR 1304	Probation and Parole	3
CJCR 1307/CRIJ 2313	Correctional Systems and Practices	3
CJCR 2324/CRIJ 2301	Community Resources in Corrections	3
ELCT	Criminal Justice Elective	3
Specialization Courses Total		**15**
Certificate Total		**30**

Fire Protection Technology (BFPC.CC)

Central Texas College offers the workforce education courses listed below in Fire Protection Technology.

FIRT 1301	Fundamentals of Fire Protection	3
FIRT 1309	Fire Administration I	3
FIRT 2309	Firefighting Strategies and Tactics I	3
FIRT 1338	Fire Protection Systems	3
Total Hours		**12**

Upon successful completion of 12 semester credit hours the student may meet the initial employment requirements of a municipal fire department.

Public Administration

This program is designed for individuals interested in entering the field of Emergency Management Planning and Homeland Security and additionally for those currently in an emergency response profession seeking to update or broaden their skills. The Associate of Applied Science degree and certificate will prepare students for decision making, problem solving, and skills to plan, implement, and coordinate resources necessary for preparedness, mitigation, response, and recovery from disasters. A number of the courses are pre-approved equivalents to courses offered by the Texas Department of Emergency Management and the Federal Management Agency.

Homeland Security and Emergency Management (HS13) 440401

Associate of Applied Science Degree

First Year

First Semester

		Credit
HMSY 1337	Introduction to Homeland Security	3
EMAP 1400	Principles of Basic Emergency Management	4
LGLA 1304	Military and National Security Legal Issues	3
ENGL 1301	Composition I	3
GOVT 2305	Federal Government	3
KINE	Physical Activity Course	1

Second Semester

ITSC 1409	Integrated Software Applications I	4
HMSY 1338	Homeland Security Emergency Communications Management	3
HMSY 1340	Homeland Security Intelligence Operations	3
HMSY 1341	Critical Infrastructure Protection	3
HMSY 1342	Understanding and Combating Terrorism	3

Second Year

First Semester

KINE	Physical Activity Course	1
ELEC	Humanities/Fine Arts Selection	3
MATH	MATH 1332, 1342 or higher level	3
HMSY 1370	IT Security for Homeland Security Specialists	3
ELEC	Social/Behavioral Science Selection	3
EMAP 2355	Disaster Recovery	
or		
HMSY 1371	Counter Terrorism	3
HMSY 1339	Homeland Security Emergency Contingency Planning	3

Second Semester

EMAP 2300	Developing Volunteer Resources and Decision Making	3
EMAP 2301	Leadership and Effective Communication	3
EMAP 2302	Managing Mass Casualty and Fatality Incidents	3
HMSY 2337	Managing a Unified Incident Command	3
HMSY 1470	Final Project in Homeland Security and Emergency Management	
or		
HMSY 2476	Internship	4
Total Hours		**68**

Homeland Security and Emergency Management (HS13) 440401

Certificate of Completion

First Semester

		Credit
HMSY 1337	Introduction to Homeland Security	3
EMAP 1400	Principles of Basic Emergency Management	4
LGLA 1304	Military and National Security Legal Issues	3
HMSY 1338	Homeland Security Emergency Communications Management	3
HMSY 1342	Understanding and Combating Terrorism	3

Second Semester

EMAP 2355	Disaster Recovery	
or		
HMSY 1339	Homeland Security Emergency Contingency Planning	3
EMAP 2300	Developing Volunteer Resources and Decision Making	
OR		
HMSY 1370	IT Security for Homeland Security Specialists	3
EMAP 2301	Leadership and Effective Communication	
OR		
HMSY 1371	Counter Terrorism	3
HMSY 2337	Managing a Unified Incident Command	3
HMSY 1470	Final Project in Homeland Security and Emergency Management	
or		
HMSY 2476	Internship	4
Total Hours		**32**

Radio and Television Broadcasting

We are on the threshold of a communications revolution. The number of channels of information which can be delivered to people around the world is increasing at a staggering rate. The Radio/Television Broadcasting Program at Central Texas College prepares students to be the innovators and the creative leaders for this growing communications future. Hands-on, practical, and comprehensive, the program instructs students in a variety of broadcasting fields, present and future.

The Associate of Arts degree in Radio/Television Broadcasting is designed for the student wishing to pursue a Baccalaureate degree. The Central Texas College curriculum is designed to maximize the transfer of lower level course work to the Baccalaureate degree granting institution. As well as providing transfer credits and a hands-on, practical learning experience, the Certificates of Completion provide students with foundation skills which may be applied to the Central Texas College Associates of General Studies degree.

Radio/Television Broadcasting (RTB11) 090701

Associate of Arts Degree

Complete Core 42
Health/Wellness/ Kinesiology (KINE Activity Courses)..... 3
Computer Technology 3
Foreign Language (FREN, GERM, SPAN, JAPN) 8
Radio/Television Broadcasting Specialization..... 10
Total Hours 66

COMM 1335 Survey of Radio/TV, 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, COMM 2332 Radio/TV News, COMM 2339 Writing for Radio, TV and Film

Radio Broadcasting (RTBD) 090701

Certificate of Completion

First Semester		**Credit**
COMM 1335	Survey of Radio/TV	3
COMM 2303	Audio/Radio Production	3
COMM 2331	Radio/Television Announcing	3
COMM 2332	Radio/Television News	3
SPCH	SPCH 1315, 1321 or 2341	3
Second Semester		
COMM 2339	Writing for Radio, TV and Film	3
COMM 2324	Practicum in Electronic Media (Audio)	3
COMM 2327	Principles of Advertising	3
ITSC 1409	Integrated Software Applications I	4
COMM 2389	Academic Cooperative	3
Total Hours		**31**

Television/Radio/Broadcasting (RTBC) 090701

Certificate of Completion

First Semester		**Credit**
COMM 1335	Survey of Radio/TV	3
COMM 2303	Audio/Radio Production	3
COMM 2331	Radio/Television Announcing	3
COMM 2332	Radio/Television News	3
COMM 1336	Television Production I	3
Second Semester		
COMM 2339	Writing for Radio, TV, and Film	3
COMM 2324	Practicum in Electronic Media (Audio)	3
COMM 2327	Principles of Advertising	3
COMM 1337	Television Production II	3
ARTS 2314	Design Communications II	3
Third Semester		
COMM 1238	Television Production III (Directing)	2
ITSC 1409	Integrated Software Applications I	4
COMM 2389	Academic Cooperative	3
Total Hours		**39**

Science

The Associate of Science degrees offered through the Science Department at Central Texas College are designed for the student wishing to pursue a Baccalaureate degree. The Central Texas College curriculum is designed to maximize the transfer of lower level course work to the Baccalaureate degree granting public education institution within the State of Texas. Associate of Science degrees are available in Biology, Chemistry, Environmental Science and Geology. These degrees provide the foundation skills required of many diverse career fields from the health care industry to the emerging alternative energy area.

Biology (BIOL) 260101

Associate of Science Degree

Complete Core 42
Health/Wellness/ Kinesiology (KINE Activity Courses)..... 3
Computer Technology 3
Mathematics Selection (MATH)..... 3
Natural Science Selection (BIOL, CHEM, PHYS, GEOL, AGRI) 4
Biology Specialization 11
Total Hours 66

BIOL 1406 Biology for Science Majors I, BIOL 1407 Biology for Science Majors II, BIOL 1411 General Botany, BIOL 1413 General Zoology, BIOL 2401 Anatomy & Physiology I, BIOL 2402 Anatomy & Physiology II, BIOL 2421 Microbiology for Science Majors, BIOL 2428 Vertebrate Zoology, ENVR 1401 Environmental Science I

Chemistry (CHEM) 400501

Associate of Science Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Computer Technology	3
Mathematics Selection (MATH)	3
Natural Science Selection (BIOL, CHEM, PHYS, GEOL)	4
Chemistry Specialization	11
Total Hours	**66**

CHEM 1411 General Chemistry I, CHEM 1412 General Chemistry II, CHEM 2423 Organic Chemistry I, CHEM 2425 Organic Chemistry II.

Environmental Science (ENVS) 030104

Associate of Science Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Computer Technology	3
Mathematics Selection (MATH)	3
Natural Science Selection (BIOL, CHEM, PHYS, GEOL)	4
Environmental Science Specialization	11
Total Hours	**66**

BIOL 1406/1407 General Biology for Science Majors 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.

Geology (GEOL) 400601

Associate of Science Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Computer Technology	3
Mathematics Selection (MATH)	3
Natural Science Selection (BIOL, CHEM, PHYS, GEOL)	4
Geology Specialization	11
Total Hours	**66**

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.

Social Science

The Associate of Arts degree in Social Science is designed for the student wishing to pursue a Baccalaureate degree in one of the many liberal arts career fields. The Central Texas College curriculum is designed to maximize the transfer of lower level course work to the Baccalaureate degree granting public education institution within the State of Texas. The Associate of Arts in Social Science allows the student to choose instruction from a broad range of Social and Behavioral Science courses. This degree provides the foundation skills required of many diverse career fields from anthropology to sociology.

Social Science (SOCI) 450101

Associate of Arts Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses)	3
Computer Technology	3
Foreign Language (FREN, GERM, SPAN, JAPN)	8
Social Science Specialization	10
Total Hours	**66**

ANTH, ECON, GEOG, GOVT, HIST, PSYC, SOCI.

Teacher Education

The Associate of Arts in Teaching degree is designed for the student wishing to transfer to a senior institution within the State of Texas to pursue Teaching Certification. The AAT curriculum is the foundation for most Bachelor level degrees.

Teaching Certification (TEAC) 131210

Associate of Arts in Teaching Degree

First Year

First Semester			**Credit**
EDUC	1301	Intro to Teaching Profession**	3
MATH	1414	College Algebra	4
ENGL	1301	Composition I*	3
ELCT		Science Selection*	4
KINE		Physical Activity Course*	1
Second Semester			
MATH	1350	Fundamentals of Math I**	3
ENGL	1302	Composition II*	3
ELCT		Science Selection*	4
HIST	1301	United States History I*	3
SPCH		SPCH 1315, 1318 or 1321*	3

Second Year

First Semester			
MATH	1351	Fundamentals of Math II**	3
ENGL	2327	American Literature I*	3
GOVT	2305	Federal Government*	3
HIST	1302	United States History II*	3
ELEC		Science Selection**	4
Second Semester			
EDUC	2301	Intro to Special Populations**	3
ELCT		Science Selection**	4
ELCT		Visual/Performing Arts Selection*	3
GOVT	2306	Texas Government*	3
ELCT		Social/Behavioral Science Selection	3
Total Hours			**63**

* Core Requirements
** EC-6 Requirements

Welding Technology

This program is designed for students desiring to prepare themselves for a welding career. The program provides entry-level, industry-validated, "hands-on" instruction using current technologies and equipment. Studies include welding safety, tools and equipment, machine setup and operation, gas welding and cutting, plasma cutting, shielded metal arc welding, electrode identification and use, MIG welding, TIG welding, pipe welding, blueprint reading, weld testing, and welding fabrication. Welding positions 1G through 4G are covered in plate welding and positions 1G through 6G are covered in pipe welding. E6010 and E7018 electrodes are used. AWS Certification criteria are used throughout the program.

The certificates of completion within this program may be completed through the Vocational Skills Center. The Vocational Skills Center offers students instruction in a self-paced, open-entry delivery format. This instructional clock hour format provides flexibility to accommodate the special needs of the student.

Welding (WLDG)
480508
Associate of Applied Science Degree

First Year

First Semester		**Credit**
WLDG 1323	Welding Safety Tools and Equipment	3
WLDG 1425	Introduction to Oxy-Fuel Welding and Cutting	4
WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)	4
MATH 1332	Contemporary Mathematics	3
ELCT	Elective	3

Second Semester		
WLDG 1457	Intermediate Shielded Metal Arc Welding (SMAW)	4
WLDG 2443	Advanced Shielded Metal Arc Welding (SMAW)	4
WLDG 1313	Introduction to Blueprint Reading for Welders	3
ENGL 1301	Composition I	3
KINE	Physical Activity Course	1

Second Year

First Semester		
WLDG 1430	Introduction to Gas Metal Arc (GMAW) Welding	4
WLDG 1435	Introduction to Pipe Welding	4
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
WLDG 1417	Introduction to Layout and Fabrication	4
ELCT	Computer Technology Skills	3
GOVT 2305	Federal Government	3

Second Semester		
WLDG 2453	Advanced Pipe Welding	4
SPCH	SPCH 1315 or 1321	3
WLDG 2447	Advanced Gas Metal Arc (GMAW) Welding	4
ELCT	Humanities/Fine Arts Selection	3
WLDG 2435	Advanced Layout and Fabrication	4
or		
WLDG 2488	Internship	
Total Hours		**72**

Welding Technology (WLD13)
480508
Certificate of Completion

		Cr/Clock
WLDG 1323	Welding Safety, Tools & Equipment	3/96
WLDG 1313	Introduction to Blueprint Reading for Welders	3/96
WLDG 1425	Introduction to Oxy-Fuel Welding and Cutting	4/96
WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)	4/96
WLDG 1457	Intermediate Shielded Metal Arc Welding (SMAW)	4/96
WLDG 2443	Advanced Shielded Metal Arc Welding (SMAW)	4/144
WLDG 1430	Introduction to Gas Metal Arc (GMAW) Welding	4/96
WLDG 2447	Advanced Gas Metal Arc (GMAW) Welding	4/96
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4/96
WLDG 2451	Advanced Gas Tungsten Arc (GTAW) Welding	4/96
WLDG 1435	Introduction to Pipe Welding	4/96
WLDG 2453	Advanced Pipe Welding	4/144
WLDG 1417	Intro. to Layout and Fabrication	4/96
WLDG 2435	Advanced Layout and Fabrication	4/96
or		
WLDG 2488	Internship	4/304
Total Hours		**54**
Total Clock Hours		**1440/1648**

Farm and Ranch (WLFR3)
480508
Certificate of completion

		Cr/Clock
WLDG 1323	Welding Safety, Tools & Equipment	3/96
WLDG 1313	Introduction to Blueprint Reading for Welders	3/96
WLDG 1425	Introduction to Oxy-Fuel Welding and Cutting	4/96
WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)	4/96
WLDG 1457	Intermediate Shielded Metal Arc Welding (SMAW)	4/96
WLDG 1430	Introduction to Gas Metal Arc (GMAW) Welding	4/96
or		
WLDG 2488	Internship	4/304
Total Hours		**22**
Total Clock Hours		**576/784**

Structural (WLS13)
480508
Certificate of Completion

			Cr/Clock
WLDG	1323	Welding Safety, Tools & Equipment	3/96
WLDG	1313	Introduction to Blueprint Reading for Welders	3/96
WLDG	1425	Introduction to Oxy-Fuel Welding and Cutting	4/96
WLDG	1430	Introduction to Gas Metal Arc (GMAW) Welding	4/96
WLDG	2447	Advanced Gas Metal Arc (GMAW) Welding	4/96
WLDG	1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4/96
WLDG	1417	Intro to Layout and Fabrication	4/96
or			
WLDG	2488	Internship	4/304
Total Hours			**26**
Total Clock Hours			**672/880**

Industrial (WLI13)
480508
Certificate of Completion

			Cr/Clock
WLDG	2443	Advanced Shielded Metal Arc Welding (SMAW)	4/144
WLDG	2447	Advanced Gas Metal Arc (GMAW) Welding	4/96
WLDG	1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4/96
WLDG	1435	Introduction to Pipe Welding	4/96
WLDG	2451	Advanced Gas Tungsten Arc (GTAW) Welding	4/96
WLDG	2453	Advanced Pipe Welding	4/144
WLDG	2435	Advanced Layout and Fabrication	4/96
Total Hours			**28**
Total Clock Hours			**768**