

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.

Agriculture Production (AGPD) 010104

Associate of Applied Science Degree

First Year

First Semester		Credit
AGRI 1131	The Agriculture Industry	1
AGRI 1419	Introductory Animal Science	4
ENGL 1301	Composition I	3
ELCT	Humanities/Fine Arts Selection	3
AGRI 2317	Introduction to Agriculture Economics	3

Second Semester

AGRI 1309	Computers in Agriculture	3
AGRI 1407	Agronomy	4
AGMG 2306	Livestock and Meat Marketing	3
ELCT	Social/Behavioral Science Selection	3
AGAH 1343	Animal Health	3

Second Year

First Semester

AGAH 2313	Principles of Feeds and Feeding	3
AGAH 1353	Beef Cattle Production	3
AGRI 2301	Agriculture Power Units	3
MATH 1342	Elementary Statistical Methods	3
AGEQ 1311	Equine Science I	3
AGMG 2486	Internship	4

Second Semester

AGAH 1347	Animal Reproduction	3
AGEQ 1301	Equine Behavior and Training I	3
AGRI 2330	Wildlife Conservation & Management	3
AGCR 1307	Range Management	3
SPCH	SPCH 1315 or 1321	3
Total Hours		64

Equine Management (AGEQ)

010104

Associate of Applied Science Degree

First Year

First Semester		Credit
AGRI 1131	The Agriculture Industry	1
AGRI 1419	Introductory Animal Science	4
ENGL 1301	Composition I	3
AGRI 2317	Introduction to Agriculture Economics	3
AGEQ 1319	Horsemanship I	3
KINE	Physical Activity Course	1

Second Semester

AGRI 1309	Computers in Agriculture	3
AGEQ 1301	Equine Behavior and Training I	3
AGAH 1343	Animal Health	3
AGEQ 2339	Horsemanship II	3
AGEQ 1311	Equine Science I	3
AGMG 2306	Livestock and Meat Marketing	3

Second Year

First Semester

AGAH 2313	Principles of Feeds and Feeding	3
ELCT	Humanities/Fine Arts Selection	3
MATH 1342	Elementary Statistical Methods	3
ELCT	Social/Behavioral Science Selection	3
AGMG 2486	Internship	4

Second Semester

AGEQ 2301	Equine Behavior and Training II	3
AGEQ 2311	Equine Science II	3
SPCH	SPCH 1315 or 1321	3
AGCR 1307	Range Management	3
AGRI 2330	Wildlife Conservation Management	3
Total Hours		64

Horticultural Development (AGHD) 010104

Associate of Applied Science Degree

First Year

First Semester		Credit
AGRI 1131	The Agriculture Industry	1
AGRI 1419	Introductory Animal Science	4
ENGL 1301	Composition I	3
AGRI 2317	Introduction to Agriculture Economics	3
AGRI 1309	Computers in Agriculture	3

Second Semester

HALT 1345	Golf/Sports Field/Park Management	3
AGRI 1407	Agronomy	4
ELCT	Humanities/Fine Arts Selection	3
HALT 1324	Turfgrass Science and Management	3
or		
HALT 1338	Irrigation Water Management and Conservation	
AGRI 1415	Horticulture	4

Second Year

First Semester

HALT 1470	Horticulture - Home Gardening	4
MATH 1342	Elementary Statistical Methods	3
HALT 1319	Landscape Construction	3
or		
HALT 1322	Landscape Design	
BIOL 1411	General Botany	4
AGMG 2486	Internship	4

Second Semester			
AGRI	2301	Agriculture Power Units	3
HALT	2308	Greenhouse Management	3
SPCH		SPCH 1315 or 1321	3
ELCT		Social/Behavioral Science Selection	3
AGCR	1319	Soil Science	3
Total Hours			64

Production Specialization (AGPD) 010104 Certificate of Completion

First Semester			Credit
AGRI	1131	The Agriculture Industry	1
AGRI	1419	Introductory Animal Science	4
AGAH	1343	Animal Health	3
AGEQ	1311	Equine Science I	3
Second Semester			
AGAH	2313	Principles of Feed and Feeding	3
AGAH	1353	Beef Cattle Production	3
AGAH	1347	Animal Reproduction	3
AGCR	2318	Range Management	3
Total Hours			23

Horticultural Specialization (AGHD) 010104 Certificate of Completion

First Semester			Credit
AGRI	1131	The Agriculture Industry	1
AGRI	1407	Agronomy	4
HALT	1322	Landscape Design	3
AGRI	1415	Horticulture	4
Second Semester			
HALT	1319	Landscape Construction	3
HALT	1392	Special Topics in Horticulture Science	3
HALT	2308	Greenhouse Management	3
AGCR	1319	Soil Science	3
Total Hours			24

Auto Collision

This program is designed for the student interested in a career in Automotive Collision Repair. It provides entry-level, industry-validated, hands-on learning covering the entire spectrum of auto body collision repair using the latest technologies. Instruction is to I-CAR requirements.

Painting and Refinishing (ACPR) 470603 Certificate of Completion

First Semester			Credit
ABDR	1419	Basic Metal Repair	4
ABDR	1472	Auto Body Glass, Hardware and Trim	4
ABDR	2447	Advanced Auto Body Welding	4
ABDR	1441	Structural Analysis and Damage Repair I	4

Second Semester			
ABDR	1431	Basic Refinishing	4
ABDR	2449	Advanced Refinishing	4
ABDR	1449	Automotive Plastic and Sheet Molded Compound Repair	
or			
ABDR	2488	Internship	4
Total Hours			28

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			Credit
First Semester			
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			Credit
AUMT	1472	Automotive Computer Systems	4
AUMT	1445	Automotive Heating and Air Conditioning	4
AUMT	1410	Automotive Brake Systems	4
AUMT	2413	Automotive Drive Train and Axles	4
ENGL	1301	Composition I	3

Second Year			Credit
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		GOVT 2301 or 2302	3

Second Semester			Credit
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

First Year

First Semester		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

Second Semester

AUMT 2417	Automotive Engine Performance Analysis I	4/144
AUMT 1445	Automotive Heating and Air Conditioning	4/128
AUMT 1472	Automotive Computer Systems	4/144
AUMT 1410	Automotive Brake Systems	4/128

Second Year

First Semester

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	4/144
WLDG 2413	Intermediate Welding Using Multiple Processes	4/128

Second Semester

AUMT 2434	Automotive Engine Performance Analysis II	4/144
AUMT 1419	Automotive Engine Repair	4/96
or		
AUMT 2488	Internship	4/304
Total Hours		55
Total Clock Hours		1728/1936

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 Heating and Air Conditioning	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	4/128
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		28/1136

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	7	70
Total Hours		15	
150			

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 2301	American Government I	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 (BUB8)
520101****Associate of Science Degree****First Year****First Semester**

			Credit
BUSI 1301	Business Principles		3
SCIE	Natural Science (see BIOL, CHEM, 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, GEOL, and PHYS)*		4
HIST 1302	U.S. History II*		3
ENGL 1302	Composition II*		3
ELCT	ARTS/DRAM/MUSI/HUMA*		3
KINE	Physical Activity Course*		1

Second Year**First Semester**

ECON 2301	Macroeconomics**		3
ACCT 2301	Principles of Accounting I		3
ENGL	English Literature Selection*		3
GOVT 2301	American Government I*		3

Second Semester

ACCT 2302	Principles of Accounting II		3
BCIS 1405	Business Computer Applications		3
GOVT 2302	American Government II*		3
ECON 2302	Microeconomics		3
SPCH	SPCH 1315 or 1321 (preferred)*		

Total Hours **60**

* 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	
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 (BURS)

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
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

ACCT	2302	Principles of Managerial Accounting	3
BUSG	2305	Business Law/Contracts	
or			
BUSI	2301	Business Law	3
MRKG	2333	Principles of Selling	
ELCT		Elective	3
RELE	1315	Property Management	3
RELE	2489	Internship	4
Total Hours			71-72

Business Management Real Estate Sales Agent (BURS)

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
ELCT		RELE 1315 or RELE 1303*	3
Second Semester			
ELCT		RELE (except 2488/2489) or approved selection*	3
RELE	2488	Internship	4
Total Hours			20

* 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 January 1, 2006.

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.

Business Programmer Analyst (CSBP) 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	1431	Introduction to Visual Basic Programming	4
ITSC	1409	Integrated Software Applications I	4
ENGL	1301	Composition I	3
MATH		MATH 1332, 1342 or higher level	3
Second Semester			
ITSE	2413	Web Authoring	4
COSC	2425	Computer Organization and Machine Language	4
ITSC	1405	Introduction to PC Operating Systems	4
GAME	1403	Introduction to Game Design and Development	4
KINE		Physical Activity Course	1
Second Year			
First Semester			
ITSY	2400	Operating Systems Security	4
ITSE	1407	Introduction to C++ Programming	4
ITSC	1415	Project Management Software	4
IMED	2409	Internet Commerce	4
ELCT		Social/Behavioral Science Selection	3
Second Semester			
ITSE	2417	JAVA Programming	4
ITSE	2431	Advanced C++ Programming	4
ITSE	1450	System Analysis and Design	4
SPCH		SPCH 1315 or 1321	3
ELCT		Humanities/Fine Arts Selection	3
Total Hours			72

Information Security Management (CSSM) 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	1300	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			
ITSY	2401	Firewalls and Network Security	4
ITSC	1405	Introduction to PC Operating Systems	4
ITNW	1437	Introduction to the Internet	4
ITNW	1425	Fundamentals of Networking Technologies	4
Second Year			
First Semester			
ITSY	2459	Security Assessment & Auditing	4
ITSY	2400	Operating System Security	4
ELCT		Humanities/Fine Arts	3
ELCT		Social/Behavioral Science Selection	3
SPCH		SPCH 1315 or 1321	3
Second Semester			
ITSC	2439	Personal Computer Help Desk	4
MATH		MATH 1332, 1342 or higher level	3
ITSC	1415	Project Management Software	4
ITSY	2441	Security Management Practices	4
Total Hours			63

Information Security Management Specialist (CSSM) 111003 Certificate of Completion

First Semester			Credit
COSC	1300	Introduction to Computing	3
ITSC	1409	Integrated Software Applications I	4
ITSY	1400	Fundamentals of Information Security	4
ITSY	2401	Firewalls and Network Security	4
Second Semester			
ITSC	1405	Introduction to PC Operating Systems	4
ITSC	2439	Personal Computer Help Desk	4
ITSY	2441	Security Management Practices	4
ITSC	1415	Project Management Software	4
Total Hours			31

Information Technology (CSIT)

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 1300	Introduction to Computing	3
or		
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
ITSW 1407	Introduction to Database	4
ENGL 1301	Composition I	3

Second Year

First Semester

ITSE 1431	Introduction to Visual Basic	4
ITNW 1425	Fundamentals of Networking Technologies	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
ITSE 1450	System Analysis and Design	4
ITSY 2400	Operating Systems Security	4
MATH	MATH 1332, 1342 or higher level	3
SPCH	SPCH 1315 or 1321	3
Total Hours		71-72

Network Systems Administrator (CSNS)

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 1409	Integrated Software Applications I	4
ITSE 1431	Introduction to Visual Basic	4
ENGL 1301	Composition I	3
MATH	MATH 1332, 1342 or higher level	3
KINE	Physical Activity Course	1

Second Semester

COSC 2425	Computer Organization and Machine Language	4
ITSC 1405	Introduction to PC Operating Systems	4
ELCT	Social/Behavioral Science Selection	3
ITNW 1437	Introduction to the Internet	4

Second Year

First Semester

ITSC 2439	Personal Computer Help Desk Support	4
ITNW 2405	Network Administration	4
ITSY 2400	Operating Systems Security	4
ITNW 1425	Fundamentals of Networking Technologies	4
ELCT	Humanities/Fine Arts Selection	3

Second Semester

ITSE 1450	System Analysis and Design	4
ITNW 2435	Network Troubleshooting & Support	4
or		
ITSE 2413	Web Authoring	4
IMED 2409	Internet Commerce	4
SPCH	SPCH 1315 or SPCH 1321	3
ITSC 1415	Project Management Software	4
Total Hours		68

Network Specialist (CSNS)

111002

Certificate of Completion

First Semester

First Semester		Credit
ITSC 1409	Integrated Software Applications I	4
ITSE 1431	Introduction to Visual Basic	4
ITNW 1437	Introduction to the Internet	4
ELCT	ITSC/ITSE/ITSW/ITNW Technical Elective	4

Second Semester

COSC 2425	Computer Organization and Machine Language	4
IMED 1416	Web Design I	4
ITNW 1425	Fundamentals of Networking Technologies	4
ITSY 2400	Operating Systems Security	4
Total Hours		32

Computer Helpdesk Specialist (CSI9)

110301

Certificate of Completion

First Semester

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

ITSW 1407	Introduction to Database	4
IMED 1416	Web Design I	4
ITSC 1405	Introduction to PC Operating Systems	4
ITSC 2439	Personal Computer Help Desk Support	4
Total Hours		32

Web Design Basics (CSWB)

111004

Certificate of Completion

First Semester			Credit
ITSC 1409	Integrated Software Applications I		4
ITNW 1437	Introduction to the Internet		4
IMED 1416	Web Design I		4
ITSC 1405	Introduction to PC Operating Systems		4
Second Semester			
IMED 2409	Internet Commerce		4
ITSE 1450	System Analysis & Design		4
ITSE 2413	Web Authoring		4
ITSY 2400	Operating System Security		4
Total Hours:			32

Microsoft Information Technology (MCITP) Server Administrator (MCS10) 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
	(Preparation for COMPTIA's Network+ exam)		
ITNW 1416	Network Administration**		4
	(Preparation for MS MCITP 70-642 exam)		
ITNW 2454	Internet/Intranet Server**		4
	(Preparation for MS MCITP 70-640 or MS 70-290 exam)		
ITNW 1454	Implementing and Supporting Servers**		4
	(Preparation for MS MCITP 70-646 exam)		
ITSY 1442	Information Technology Security***		4
	(Preparation for COMPTIA's Security+ exam)		
Total Hours			20

*Recommended as 1st courses. After completion of ITNW 1458 the student can take the COMPTIA exam leading to COMPTIA Network Certification.

**These three courses will prepare students to sit for the exams leading to a Microsoft MCITP Server Administrator Certification.

***This course is recommended for students wanting to complete the exam leading to a COMPTIA Security Certification.

Cosmetic Services

This program is for the student who wishes to pursue a career in Cosmetology. It provides entry-level, industry-validated, hands-on instruction that prepares students to take the Texas State Board of Cosmetology exam.

Cosmetology (COSM)

120401

Certificate of Completion

First Year			Credit
First Semester			
CSME 1501	Orientation to Cosmetology		5
CSME 1551	Artistry of Hair/Theory and Practice		5
CSME 1443	Manicuring and Related Theory		4
Second Semester			
CSME 1453	Chemical Reformation and Related Theory		4
CSME 1547	Principles of Skin Care/Facials and Related Theory		5
CSME 1505	Fundamentals of Cosmetology		5
Third Semester			
CSME 2501	Principles of Hair Coloring and Related Theory		5
CSME 2539	Advanced Hair Design		5
CSME 2441	Preparation for the State Licensing Examination		4
Total Hours			42

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 (DEMR)

470605

Associate of Applied Science Degree

First Semester			Credit
DEMR 1401	Shop Safety and Procedures		4
DEMR 1406	Diesel Engine I		4
AUMT 1445	Automotive Heating and Air Conditioning		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	GOVT 2301 or 2302	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 (DETE)**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
AUMT 1445	Automotive Heating and Air Conditioning	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 (DESS)**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
AUMT 1445	Automotive Heating and Air Conditioning	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 (DFDS)**151301****Associate of Applied Science Degree****First Year**

First Semester		Credit
ENGR 1304	Engineering Graphics I*	3
DFTG 2412	Technical Illustration and Presentation	4
DFTG 1409	Basic Computer-Aided Drafting	4
MATH	MATH 1332, 1342 or 1414	3-4

Second Semester

ENGR 1305	Engineering Graphics II*	3
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		64-65

* Locations at a distance may substitute DFTG 1405 for ENGR 1304 and DFTG 2417 for ENGR 1305.

Computer-Aided Drafting and Design (DFDS)

151301

Certificate of Completion

		Credit
ENGR 1304	Engineering Graphics I	3
ENGR 1305	Engineering Graphics II	3
DFTG 1409	Basic Computer-Aided Drafting	4
DFTG 2402	Machine Drafting	4
DFTG 2440	Solid Molding/Design	4
DFTG 2412	Technical Illustration and Presentation	4
MATH 1332	Contemporary Mathematics	3
Total Hours		25

Early Childhood Professions

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.

Early Childhood Professions (CDEC) 190709

Associate of Applied Science Degree

The courses for this degree may be taken in any sequence. The Early Childhood Profession courses, CDEC, have no required prerequisites.

First Year

First Semester		Credit
CDEC 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 1358	Creative Arts for Early Childhood	3
CDEC 1354	Child Growth and Development**	3
CDEC 1318	Wellness of the Young Child**	3
CDEC 1303	Families, School and Community**	3
CDEC 1356	Emergent Literacy for Early Childhood	3

Second Year

First Semester		
CDEC 1321	The Infant and Toddler	3
CDEC 2326	Administration of Programs for Children I	
or		
CDEC 2328	Admin. of Programs for Children II	3
ELCT	Computer Technology Skills	4
SPCH	SPCH 1315, 1321 or 2341	3
MATH	MATH 1324, 1332, 1342 or higher level	3
or		
ENVR 1401	Environmental Science	4
CDEC 1335	Early Childhood Development: 3-5 Years	3

Second Semester

CDEC 2307	Math & Science for Early Childhood	3
CDEC 2384	Cooperative Education in Child Development	3
CDEC 2341	The School Age Child	3
CDEC 1195	Special Topics in Child Care Provider/Assistant	1
ELCT	Humanities/Fine Arts Selection	3
ELCT	Social/Behavioral Science Selection	3
Total Hours		66-67

* CDEC 1371 and 2340 may substitute

** TECA 1311 may be substituted for CDEC 1311

TECA 1318 may be substituted for CDEC 1318

TECA 1303 may be substituted for CDEC 1303

TECA 1354 may be substituted for CDEC 1354

TECA courses are the general academic transfer course equivalent to the CDEC courses.

Early Childhood Professions (CDEC) 190709

Certificate of Completion

		Credit
CDEC 1311	Educating Young Children*	3
CDEC 1313	Curriculum Resources for Early Childhood Programs	3
CDEC 1319	Child Guidance	3
CDEC 1359	Children with Special Needs	3
CDEC 1358	Creative Arts for Early Childhood	3
CDEC 1354	Child Growth and Development*	3
CDEC 1318	Wellness of the Young Child*	3
CDEC 1303	Families, School and Community*	3
CDEC 1356	Emergent Literacy for Early Childhood	3
CDEC 1321	The Infant and Toddler	3
CDEC 1335	Early Childhood Development: 3-5 Years	
or		
CDEC 1391	Special Topics in Family Life and Relations Studies	3
Total Hours		33

* TECA 1311 may be substituted for CDEC 1311

TECA 1318 may be substituted for CDEC 1318

TECA 1303 may be substituted for CDEC 1303

TECA 1354 may be substituted for CDEC 1354

TECA courses are the general academic transfer course equivalent to the CDEC courses.

Administrator's Credentials (CDAC) 190708

Certificate of Completion

First Semester		Credit
CDEC 1311	Educating Young Children*	
or		
CDEC 2341	The School Age Child	3
CDEC 1313	Curriculum Resources for Early Childhood Programs	
or		
CDEC 2307	Math & Science for Early Childhood	3
CDEC 1319	Child Guidance	3
CDEC 2326	Administration of Programs for Children I	3
ENGL 1301	Composition I	3

Second Semester

CDEC 1354	Child Growth and Development*	3
CDEC 1318	Wellness of the Young Child*	3
CDEC 2328	Administration of Programs for Children II	3
CDEC 2384	Cooperative Education in Child Development	3
ELCT	Computer Technology Skills	3
Total Hours		30

- * TECA 1311 may be substituted for CDEC 1311
 TECA 1318 may be substituted for CDEC 1318
 TECA 1354 may be substituted for CDEC 1354

TECA courses are the general academic transfer course equivalent to the CDEC courses.

Special Child Option (CDSC) 190709

Certificate of Completion

First Semester		Credit
CDEC 1311	Educating Young Children*	3
CDEC 1359	Children with Special Needs	3
CDEC 1303	Families, School and Community*	3
CDEC 1371	Physical Development and Disorder in Children	3
ENGL 1301	Composition I	3
Second Semester		
CDEC 1313	Curriculum Resources in Early Childhood Programs	3
CDEC 2340	Instructional Techniques for Children with Special Needs	3
CDEC 1354	Child Growth and Development*	3
CDEC 1318	Wellness of the Young Child*	3
Total Hours		27

- * TECA 1311 may be substituted for CDEC 1311
 TECA 1318 may be substituted for CDEC 1318
 TECA 1303 may be substituted for CDEC 1303
 TECA 1354 may be substituted for CDEC 1354

TECA courses are the general academic transfer course equivalent to the CDEC courses.

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

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 (ELCP) 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		Credit
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 2445	Computer System Troubleshooting	4
ELMT 2435	Certified Electronics Technician Training	4
ELCT	Humanities/Fine Arts Selection	3
ELCT	Approved Technical Elective	3-4
SPCH	SPCH 1315 or 1321	3
Total Hours		66-67

Computer Electronics Technology (ELCP) 151202

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 (ELN8)

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
ITCC 2408	CISCO Exploration 3-LAN Switching and Wireless	4
CETT 1429	Solid State Devices	4
ITNW 1451	Fundamentals of Wireless LANs	4
ELCT	Social/Behavioral Science Selection	3

Second Semester

CPMT 2445	Computer System Troubleshooting	4
ITCC 2410	CISCO Exploration 4-Accessing the WAN	4
CPMT 2350	Industry Certification Preparation	3
ELCT	Humanities/Fine Arts Selection	3
SPCH	SPCH 1315 or 1321	3
Total Hours		70

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 (ELNS)

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

CPMT 2434	Network Security	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 (EMT9)

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 2421	Microbiology for 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

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 (ENGR)

140101

Associate of Science Degree

Complete Core	42
Computer Technology	4
Mathematics Selection (MATH 2413 and MATH 2414)	8
Engineering (Introductory) (ENGR 1305 or ENGR 2302)	3
Engineering Selection (ENGR 2301)	3
Engineering Specialization	14
Total Hours	74

MATH 2318 Linear Algebra, MATH 2415 Calculus III, ENGR 1201 Introduction to Engineering, ENGR 1304 Engineering Graphics I, PHYS 1403 Stars & Galaxies, PHYS 1404 Solar System.

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 (DRMA)

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.

Music (MUSI)

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 1131 Instrumental Ensemble, **MUEN 1151 Vocal Ensemble, MUSI 1181 Class Piano I, MUSI 1183 Class Voice I, MUSI 1188 Class Percussion I, *MUSI 1216 Ear Training and Sight Singing I, **MUSI 1217 Ear Training and Sight Singing II, MUSI 1307 Music Literature, *MUSI 1311 Music Theory I, **MUSI 1312 Music Theory II, MUSI 2311 Music Theory III, MUSI 2312 Music Theory IV.

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

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

*MUSI 1216 and MUSI 1311 should be taken concurrently

**MUSI 1217 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 2301	American Government I	3
ELCT	Electives*	12
KINE	Physical Activity Course	1

Second Semester

GOVT 2302	American Government II	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 34-37 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), camera work, 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 (GP10)

100305

Associate of Applied Science Degree

First Year

First Semester		Credit
GRPH 1405	Introduction to Graphic Arts & Printing	4
ARTC 1313	Digital Publishing I	3
ARTC 1327	Typography	3
ENGL 1301	Composition I	3
ELEC	Humanities/Fine Arts Selection	3

Second Semester

ARTC 2313	Digital Publishing II	3
ARTC 1302	Digital Imaging I	3
ARTC 2305	Digital Imaging II	3
MATH 1332	Contemporary Mathematics	3
GOVT	GOVT 2301 or 2302	3

Second Year

First Semester

ARTC 2348	Digital Publishing III	3
ARTC 2333	Publication Design	3
GRPH 1408	Darkroom Techniques for Plate Development	4
SPCH	SPCH 1315 or 1321	3
GRPH 2336	Prepress Techniques	3
ELEC	Computer Technology Skills	4

Second Semester

GRPH 1474	Preventive Maintenance	4
GRPH 1309	Press Operations I	3
GRPH 2338	Press Operations II	3
GRPH 1374	Press Operations III	3
GRPH 1419	Bindery & Finishing Operations	4
ARTC 2435	Portfolio Development for Graphic Design	4
OR		
GRPH 2488	Internship Graphics & Printing Equipment Operator	
Total Hours		72

**Graphics and Printing Technology
(GP10.CC2) 100305
Certificate of Completion – Level 2**

		Credit
GRPH 1405	Introduction to Graphic Arts & Printing	4
ARTC 1313	Digital Publishing I	3
ARTC 1327	Typography	3
ARTC 2313	Digital Publishing II	3
ARTC 1302	Digital Imaging I	3
ARTC 2305	Digital Imaging II	3
ARTC 2348	Digital Publishing III	3
ARTC 2333	Publication Design	3
GRPH 1408	Darkroom Techniques for Plate Development	4
GRPH 2336	Prepress Techniques	3
GRPH 1474	Preventive maintenance	4
GRPH 1309	Press Operations I	3
GRPH 2338	Press Operations II	3
GRPH 1374	Press Operations III	3
GRPH 1419	Bindery & Finishing Operations	4
ARTC 2435	Portfolio Development for Graphic Design	4
OR		
GRPH 2488	Internship Graphics & Printing Equipment Operator	
Total Hours		53

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

		Credit
GRPH 1405	Introduction to Graphic Arts & Printing	4
GRPH 1408	Darkroom Techniques for Plate Development	4
GRPH 2336	Prepress Techniques	3
GRPH 1474	Preventive Maintenance	4
GRPH 1309	Press Operations I	3
GRPH 2338	Press Operations II	3
GRPH 1374	Press Operations III	3
GRPH 1419	Bindery & Finishing Operations	4
GRPH 2488	Internship Graphics & Printing Equipment Operator	4
TOTALS		32

**Graphics and Printing Technology
Graphic Design (GPGD.CC1) 100305
Certificate of Completion**

		Credit
GRPH 1405	Introduction to Graphic Arts & Printing	4
ARTC 1313	Digital Publishing I	3
ARTC 1327	Typography	3
ARTC 2313	Digital Publishing II	3
ARTC 1302	Digital Imaging I	3
ARTC 2305	Digital Imaging II	3
ARTC 2348	Digital Publishing III	3
GRPH 2336	Prepress Techniques	3
ARTC 2333	Publication Design	3
GRPH 1419	Bindery & Finishing Operations	4
ARTC 2435	Portfolio Development for Graphic Design	4
OR		
GRPH 2488	Internship Graphics & Printing Equipment Operator	
TOTALS		36

**Graphics and Printing (GPGP)
100305
Certificate of Completion**

(Texas Department of Criminal Justice Gatesville, Texas, only)

		Credit
GRPH 1405	Introduction to Graphic Arts and Printing	4
ARTC 1313	Digital Publishing I	3
ARTC 2313	Digital Publishing II	3
GRPH 2336	Prepress Techniques	3
GRPH 1309	Press Operations I	3
ARTC 2348	Digital Publishing III	3
GRPH 1474	Preventive Maintenance	4
GRPH 2338	Press Operations II	3
GRPH 1419	Bindery and Finishing Operations	4
Total Hours		30

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	GOVT 2301 or 2302	3

Second Year

First Semester

HART 2449	Heat Pumps	4
HART 2431	Advanced Electricity for HVAC	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 2438	Air Conditioning Installation and Startup	4
SPCH	SPCH 1315 or 1321	3
HART 2445	Residential Air Conditioning System Design	4

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 2431	Advanced Electricity for HVAC	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 2438	Air Conditioning Installation and Startup	4
HART 2445	Residential Air Conditioning System Design	4

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 1403	Air Conditioning Control Principles	4
HART 2441	Commercial Air Conditioning	4

Second Semester

HART 2431	Advanced Electricity for HVAC	4
HART 2442	Commercial Refrigeration	4
HART 2436	Air Conditioning Troubleshooting	4
HART 2445	Residential Air Conditioning System Design	4
HART 2438	Air Conditioning Installation and Startup	4

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	4

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 (HMRCM) 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 2301	American Government I	3
HAMG 1319	Computers in Hospitality	3
SPCH	SPCH 1315 or SPCH 1321	3
ELCT	Selected Technical Elective	3
ELCT	Selected Technical Elective	3
HAMG 2301	Principles of Food and Beverage Operations	3

Second Year

First Semester		Credit
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	Technical Elective	3
ELCT	Selected Technical Elective	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		72

Hotel Management Specialization (HMHM)

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
HAMG 1319	Computers in Hospitality	3
ELCT	Humanities/Fine Arts Selection	3
ELCT	Academic Elective	3

Second Semester

GOVT 2301	American Government I	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	Technical Elective	3
KINE	Physical Activity Course	1

Second Semester

HAMG 2337	Hospitality Facilities Management	3
ENGL 1301	Composition I	3
ELCT	Technical Elective	3
HAMG 2307	Hospitality Marketing and Sales	3
ELCT	Technical Elective	3
HAMG 2388	Internship	3
Total Hours		72

* HAMG 1324 may substitute.

Culinary Arts (HMCA)

520905

Certificate of Completion

First Semester

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
HAMG 1319	Computers in Hospitality	3

Second Semester

CHEF 1410	Garde Manger	4
HAMG 2301	Principles of Food and Beverage Operations	3
ELCT	Selected Technical Elective	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	Selected Technical Elective	3
Total Hours		40

Restaurant Skills (HMR9)

520905

Certificate of Completion

		Credit
CHEF 1305	Sanitation and Safety	3
HAMG 1319	Computers in Hospitality	3
CHEF 1301	Basic Food Preparation	3
HAMG 2301	Principles of Food and Beverage Operations	3
RSTO 1221	Menu Management	2
ELCT	Selected Technical Elective	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 (HMPM)

520904

Certificate of Completion

		Credit
First Semester		
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 2370	Hospitality Financial Management II	3
HAMG 1342	Guest Room Maintenance	3
HAMG 2388	Internship	3
Total Hours		39

Restaurant Operations (HMRO)

520905

Certificate of Completion

(Texas Department of Criminal Justice Only)

			Credit
CHEF 1305	Sanitation and Safety		3
CHEF 1301	Basic Food Preparation		3
HAMG 1319	Computers in Hospitality		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
RSTO 1204	Dining Room Service		2
Total Hours			28

Institutional Food Service Operations (HMIF)

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.

			Credit
First Semester			
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	Selected Technical Elective		3
HAMG 2307	Hospitality Marketing and Sales		3
HAMG 1319	Computers in Hospitality		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	Selected Technical Elective		3
Total Hours			41

Rooms Division (HMRD)

520904

Certificate of Completion

			Credit
First Semester			
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
HAMG 1319	Computers in Hospitality		3
HAMG 2332	Hospitality Financial Management		3
HAMG 2388	Internship		3
Total Hours			24

Food and Beverage Management Specialization (HMFB)

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
HAMG 1319	Computers in Hospitality	3
ELCT	Humanities/Fine Arts Selection	3
HAMG 2307	Hospitality Marketing and Sales	3
ELCT	Technical Elective	3

Second Semester

GOVT 2301	American Government I	3
HAMG 1324	Hospitality Human Resource Management	3
SPCH	SPCH 1315 or 1321	3
RSTO 1204	Dining Room Service	2
ELCT	Technical Elective	3
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	Convention Management and Service	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		72

Food and Beverage Management (HMFOL)

520901

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 1319	Computers in Hospitality	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

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 (LAP8) 220302

Associate of Applied Science Degree

First Year

First Semester		Credit
LGLA 1303	Legal Research	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
ELCT		ACCT 2301 or ACNT 1325 or BUSG 1370	3
GOVT	2301	American Government I	3
KINE		Physical Activity Course	1

Second Semester

LGLA	2313	Criminal Law and Procedures	3
POFT	1309	Administrative Office Procedures I	3
LGLA	2331	Advanced Legal Research and Writing	3
LGLA		Legal Elective	3
LGLA		Legal Elective	3
LGLA	2433	Advanced Legal Document Preparation	3
		or	
LGLA	2435	Advanced Civil Litigation	4
Total Hours			68

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 (MTNT)

460401

Associate of Applied Science Degree

First Year

First Semester			Credit
CRPT	1429	Introduction to Carpentry	4
HART	1407	Refrigeration Principles	4
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	1411	Conventional Roof Systems	4
ELEC		Humanities/Fine Arts Selection	3

Second Year

First Semester

CRPT	1415	Conventional Wall Systems	4
PFPB	2409	Residential Construction Plumbing I	4
HART	1445	Gas and Electric Heating	4
ELEC		Computer Technology Skills	4
GOVT		GOVT 2301 or 2302	3

Second Semester

CBFM	1334	Interior and Exterior Painting and Refinishing	3
HART	1401	Basic Electricity for HVAC	4
MBST	1507	Masonry I	5
SPCH		SPCH 1315 or 1321	3
PFPB	2445	Residential Construction Plumbing II	4
		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	Conventional Wall Systems	4/96
CRPT	1411	Conventional 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

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	Conventional Wall Systems	4/96
CRPT	1411	Conventional 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		728/928

Residential Construction (MTRC) 460401

Certificate of Completion

(Brady Campus Only)

First Semester		Credit
CRPT 1423	Floor Systems	4
CRPT 1415	Conventional Wall Systems	4
CRPT 1411	Conventional Roof Systems	4
CBFM 1334	Interior and Exterior Painting and Refinishing	3

Second Semester

WDWK2451	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 (MATH) 270101

Associate of Science Degree

Complete Core	42
Health/Wellness/ Kinesiology (KINE Activity Courses).....	3
Computer Technology	4
Mathematics Selection (MATH 2413 and MATH 2414).....	8
Natural Science Selection (BIOL, CHEM, PHYS, GEOL)..	4
Mathematics Specialization	7
Total Hours	68

MATH 2318 Linear Algebra, MATH 2320 Differential Equations, MATH 2412 Precalculus Math, MATH 2415 Calculus III.

Medical Laboratory Technician

Medical Laboratory Technology 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) 51104

Associate of Applied Science Degree

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
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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 (MHA8)**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 1319	Adolescent Development	3
ENGL 1301	Composition I	3
CMSW 1309	Problems of Children and Adolescents	3
DAAC 1311	Counseling Theories	3
PSYC 2301	General Psychology	3

Third Semester

KINE	Physical Activity Course	1
PSYT 2331	Abnormal Psychology	3
PSYT 2321	Crisis Intervention	3

Second Year**First Semester**

PSYT 2345	Principles of Behavior Management and Modification	3
ELCT	Mental Health Elective	3
ENGL 2311	Technical and Business Writing	3
DAAC 2307	Addicted Family Intervention	3
DAAC 2354	Dynamics of Group Counseling	3

Second Semester

MATH	MATH 1332 or 1342	3
SCWK 2301	Assessment and Case Management	3
CMSW 1167	Practicum	1
SPCH	SPCH 1315 or 1321	3
ELCT	Humanities/Fine Arts Selection	3

Total Hours 65**At Risk Youth Specialization Advanced Certificate (MHAR)****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
CMSW 1309	Problems of Children and Adolescents	3
PSYC 1300	Learning Frameworks	3

Second Semester

DAAC 2307	Addicted Family Intervention	3
PSYT 2345	Principles of Behavior Management and Modification	3
CMSW 1313	Assessment and Service Delivery	3
DAAC 1311	Counseling Theories	3
PSYT 2321	Crisis Intervention	3

Third Semester

SCWK 2301	Assessment and Case Management	3
PSYT 2331	Abnormal Psychology	3
DAAC 2354	Dynamics of Group Counseling	3
CMSW 1167	Practicum	1
Total Hours		40

Chemical Dependency Specialization (MHC8)**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

DAAC 1309	Assessment Skills of Alcohol and Other Drug Addictions	3
ENGL 1301	Composition I	3
CMSW 1309	Problems of Children and Adolescents	3
DAAC 1311	Counseling Theories	3
PSYC 2301	General Psychology	3

Second Year**First Semester**

KINE	Physical Activity Course	1
PSYT 2331	Abnormal Psychology	3
PSYT 2321	Crisis Intervention	3

Second Semester

DAAC 2301	Therapeutic Communities in the Criminal Justice Setting	3
ELCT	Mental Health Elective	3
ENGL 2311	Technical and Business Writing	3
DAAC 2307	Addicted Family Intervention	3
DAAC 2354	Dynamics of Group Counseling	3

Third Semester

MATH	MATH 1332 or 1342	3
DAAC 2341	Counseling Alcohol and Other Drug Addictions	3
DAAC 2367	Practicum	3
SPCH	SPCH 1315 or 1321	3
ELCT	Humanities/Fine Arts Selection	3

Total Hours 67**Chemical Dependency Specialization - Advanced Certificate (MHCA) 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
DAAC 1309	Assessment Skill of Alcohol and Other Drug Addictions	3
CMSW 1309	Problems of Children and Adolescents	3

Second Semester

PSYT 2331	Abnormal Psychology	3
DAAC 2307	Addicted Family Intervention	3
PSYT 2321	Crisis Intervention	3
DAAC 1311	Counseling Theories	3
DAAC 2301	Therapeutic Communities in a Criminal Justice Setting	3

Third Semester

DAAC 2354	Dynamics of Group Counseling	3
DAAC 2341	Counseling Alcohol and Other Drug Addictions	3
DAAC 2367	Practicum	3

Total Hours 39**Criminal Justice Addictions (MHCJ) 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
DAAC 1309	Assessment Skill of Alcohol & Other Drug Addictions	3
DAAC 2307	Addicted Family Intervention	3

Second Semester

PSYT 2331	Abnormal Psychology	3
DAAC 2354	Dynamics of Group Counseling	3
PSYT 2321	Crisis Intervention	3
DAAC 2341	Counseling Alcohol & Other Drug Addictions	3
DAAC 2301	Therapeutic Communities in a Criminal Justice Setting	3
DAAC 2367	Practicum	3

Total Hours 33**Social Work Specialization (MHS8) 511503****Associate of Applied Science****First Year****First Semester**

		Credit
ENGL 1301	Composition I	3
HIST 1301	United States History I	3
SOCI 1301	Introduction to Sociology	3
PSYT 1329	Interviewing & Communications Skills	3
PSYC 1300	Learning Frameworks	3

Second Semester

ENGL 1302	Composition II	3
HIST 1302	United States History II	3
PSYC 2301	General Psychology	3
DAAC 1319	Introduction to Alcohol and Other Drug Addictions	3
CMSW 1309	Problems of Children and Adolescents	3

Second Year**First Semester (Summer)**

KINE	Physical Activity Course	1
GOVT 2301	American Government I	3
SPCH	SPCH 1315 or 1321	3
ELCT	Visual and Performing Arts	3

Second Semester

SOCW 2361	Introduction to Social Work	3
GOVT 2302	American Government II	3
PSYT 2331	Abnormal Psychology	3
PSYT 2321	Crisis Intervention	3
DAAC 1304	Pharmacology of Addiction	3

Third Semester

SOCW 2362	Social Welfare as a Social Institution	3
CMSW 1167	Practicum	1
DAAC 2354	Dynamics of Group Counseling	3
PSYT 1309	Health Psychology	3
MATH	MATH 1332 or 1342	3

Total Hours 68

Department of Nursing

Nursing Associate Degree (NUA6) 513801

Associate of Applied Science Degree

The Nursing Associate Degree program is accredited by the National League for Accrediting Commission, 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 (TBN) and is fully accredited by the National League for Nursing Accrediting Commission, Inc. (NLNAC).

First Year

First Semester		Credit
RNSG 1209	Introduction to Nursing	2
BIOL 2401	Anatomy and Physiology I	4
ELCT	BIOL 1406*	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

Second Year

Fourth Semester

BIOL 2421	Microbiology for Science Majors (BIOL 2421 is the only Microbiology accepted and is a prerequisite to the fifth semester)	4
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Fifth 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

Sixth Semester

RNSG 2341	Advanced Concepts of Clinical Decision Making	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 2421 is completed successfully prior to the second semester, elective credit may be granted for CHEM 1406, CHEM 1411 or MATH 1414 in place of BIOL 1406.

Nursing Option for LVN (NUL6) 513801

Associate of Applied Science Degree

This program admits eligible students who are Licensed Vocational Nurses in Texas or have privileges to practice in Texas. Requires three semesters to complete and prepares graduates for professional practice in a variety of health care settings. Graduates are eligible to receive an Associate of Applied Science Degree and sit the National Council Licensure Examination-Registered Nurse (NLCEX-RN®). The CTC A.D.N. program is approved by the Texas Board of Nursing (TBN) and is fully accredited by the National League for Nursing Accrediting Commission, Inc. (NLNAC).

First Year

First Semester		Credit
BIOL 2401	Anatomy and Physiology I	4
ENGL 1301	Composition I	3
ELCT	BIOL 1406*	4
PSYC 2301	General Psychology	3

Second Semester

BIOL 2402	Anatomy and Physiology II	4
BIOL 2421	Microbiology for Science Majors (BIOL 2421 is the only Microbiology accepted and is a prerequisite to the fifth semester)	4

Third Semester

RNSG 1327	Transition from Vocational to Professional Nursing**	3
RNSG 1162	Clinical -LVN Transition** (RNSG 1413, 1105, 1115, 1301, 1262, 1363, 1209)	16
RNSG 2213	Mental Health Nursing	2
PSYC 2314	Life Span Growth and Development	3

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

Fifth Semester

RNSG 2341	Advanced Concepts of Clinical Decision Making	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		70

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

** RNSG 1327, 1162 are transition courses, available to Licensed Vocational Nurses. Upon successful completion of the 4th semester, Licensed Vocational Nurses will receive credit for RNSG 1413, 1105, 1115, 1301, 1262, 1363, 1209.

Nursing - Paramedic to ADN (NUP6)

513801

Associate of Applied Science Degree

This program admits eligible students who are certified or licensed Paramedics in any state or the National Registry of EMTs. Requires three semesters to complete and prepares graduates for professional practice in a variety of health care settings. Graduates are eligible to receive an Associate of Applied Science Degree and sit the National Council Licensure Examination-Registered Nurse (NLCEX-RN®). The CTC A.D.N. program is approved by the Texas Board of Nursing (TBON) and is fully accredited by the National League for Nursing Accrediting Commission, Inc. (NLNAC)

First Year

First Semester			Credit
ENGL 1301	Composition I		3
ELCT BIOL 1406**			4
PSYC 2301	General Psychology		3
BIOL 2401	Anatomy and Physiology I		4

Second Semester

BIOL 2402	Anatomy and Physiology II		4
BIOL 2421	Microbiology for Science Majors (BIOL 2421 is the only Microbiology accepted and is a prerequisite to the fifth semester)		4
RNSG 1301	Pharmacology		3

Third Semester

RNSG 1417	Concepts of Nursing Practice I for Articulating Students		4
RNSG 2360	Clinical Nursing for Articulating Students (RNSG 1413, 1105, 1115, 1209)*		3 8
RNSG 1251	Care of the Childbearing Family		2
RNSG 2213	Mental Health Nursing		2
PSYC 2314	Life Span Growth and Development		3

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

Fifth Semester

RNSG 2341	Advanced Concepts of Clinical Decision Making		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			70

* RNSG 1470 and 2360 are articulation courses, available to Paramedics. Upon successful completion of the last semester, Paramedics will receive credit for RNSG 1413, 1105, 1115, 1209.

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

Vocational Nursing (NUVN)

513901

Certificate of Completion

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 1307	Pediatric Nursing	3
VNSG 1410	Nursing in Health and Illness III	4
VNSG 1360	Clinical-Practical Nurse III	3

Total Hours 53

Nurse Aide

Noncredit Certificate of Completion

This non-credit program consists of 64 hours of classroom instruction, including skills lab and 24 hours of clinical practice in a long-term care facility. The program prepares students for the state certification examination to become a Certified Nurse Aide.

NURA 1001	Nurse Aide for Health Care	64
NURA 1060	Clinical Nursing Asst/Aide	24
Total		88

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.

Many 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 (OTEA) 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 and Machine Applications	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

ACNT	1325	Principles of Accounting I*	3
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	3
ELCT		Social/Behavioral Science Selection	3
ELCT		POFI/POFT Internship Selection	3

Total Hours 66

*ACNT 1325 or ACCT 2301.

Administrative Support (OTAS)

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 and Machine Applications	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

ACNT	1325	Principles of Accounting I*	3
POFI	2331	Desktop Publishing	3
POFI	1349	Spreadsheets	3
SPCH		SPCH 1315 or 1321	3
ELCT		POFI/POFT Internship Selection	3

Total Hours 49

* ACNT 1325 or ACCT 2301.

General Office Assistant (OTGO)

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 and Machine Applications	3
POFT	1319	Records & Information Management I	3
POFT	2312	Business Correspondence and Communication	3
ACNT	1325	Principles of Accounting I*	3

Third Semester

POFI	2301	Word Processing	3
ACNT	1326	Principles of Accounting II*	3
POFI	1349	Spreadsheets	3

Total Hours 33

*ACNT 1325, 1326 or ACCT 2301, 2302.

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 and Machine Applications		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 (OTOM)**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 and Machine Applications		3
Second Year			
First Semester			
ACNT 1325	Principles of Accounting I*		3
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			
ACNT 1326	Principles of Accounting II*		3
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			69

*ACNT 1325, 1326 or ACCT 2301, 2302.

Office Management (OTOM)**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 and Machine Applications		3
Second Year			
First Semester			
ACNT 1325	Principles of Accounting I*		3
POFI 1349	Spreadsheets		3
SPCH	SPCH 1315 or 1321		3
ELCT	POFI/POFT/POFM/HITT Selection		3
Second Semester			
ACNT 1326	Principles of Accounting II*		3
POFT 1349	Administrative Office Procedures II		3
ELCT	Social/Behavioral Science Selection		3
ELCT	POFI/POFT Internship Selection		3
Total Hours			54

*ACNT 1325, 1326 or ACCT 2301, 2302.

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 and Machine Applications		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 (OTIM) 520407

Certificate of Completion

			Cr/Clock
First Semester			
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 and Machine Applications	3/96
POFT	1319	Records & Information Management I	3/96
ACNT	1325	Principles of Accounting I	3/96
Fourth Semester			
POFI	1349	Spreadsheets	3/96
POFT	2333	Advanced Keyboarding	3/96
ACNT	1311	Introduction to Computerized Accounting	3/96
POFT	2388	Internship	3/144
Total Hours			39
Total Clock Hours			1296

Health Management Related

Health Information Management (OTHI) 510716

Certificate of Completion

			Cr/Clock
First Semester			
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

HITT	1301	Health Data Content and Structure	3/96
POFM	1300	Medical Coding Basics	3/96
POFM	2386	Internship	3/144
Total Hours			39
Total Clock Hours			1296

Medical Office Specialist (OTMO) 510716

Certificate of Completion

			Cr/Clock
First Semester			
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 and Machine Applications	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 Secretary (OTM7) 510716

Certificate of Completion

			Cr/Clock
First Semester			
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 Transcription (OTMT) 510716

Certificate of Completion

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			Credit
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			Credit
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			Credit
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			Credit
First Semester			
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			Credit
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		GOVT 2301 or 2302	3

Second Semester			Credit
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			Credit
First Semester			
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			Credit
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			Credit
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		GOVT 2301 or 2302	3

Second Semester			Credit
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		Credit
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		Credit
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

Criminal Justice - Law Enforcement Technology Specialization (CJLET) 430104

Associate of Applied Science Degree

First Year

First Semester		Credit
CJSA1322/CRIJ 1301	Intro to Criminal Justice	3
CJSA1312/CRIJ 1307	Crime in America	3
CJSA1317/CRIJ 1313	Juvenile Justice System	3
CJLE 1506	Basic Peace Officer I	5
ENGL 1301	Composition I	3
KINE 1125	Physical Conditioning I	1

Second Semester

CJSA 1348	Ethics in Criminal Justice	3
CJLE 1512	Basic Peace Officer II	5
ENGL	ENGL 1302 or 2311	3
MATH	MATH 1332, 1342 or higher level	3
KINE	Physical Activity Course	1

Second Year

First Semester		Credit
CJSA1359/CRIJ 2328	Police Systems and Practices	3
CJLE 1518	Basic Peace Officer III	5
ELCT	Criminal Justice Elective or CJLE 1329	3
SOCI 1301	Introduction to Sociology	3
GOVT	GOVT 2301 or 2302	3

Second Semester

CJSA 2331	Child Abuse, Prevention and Investigation	3
CJLE 1524	Basic Peace Officer IV	5
SPCH	SPCH 1315 or SPCH 1321	3
ELCT	Humanities/Fine Arts Selection	3
ELCT	Computer Technology Skills	3
Total Hours		67

Extended Basic Peace Officer Training (CJBP)

430107

Certificate of Completion

First Semester		Credit
CJLE 1506	Basic Peace Officer I	5

Second Semester		Credit
CJLE 1512	Basic Peace Officer II	5

Third Semester		Credit
CJLE 1518	Basic Peace Officer III	5

Fourth Semester		Credit
CJLE 1524	Basic Peace Officer IV	5

Fifth Semester		Credit
CJLE 1329	Basic Peace Officer V	3
Total Hours		23

Basic Peace Officer Training (CJBP)

430107

Non-Credit Certificate of Completion

First Semester		Clock Hours
CJLE 1006	Basic Peace Officer I	146

Second Semester		Clock Hours
CJLE 1012	Basic Peace Officer II	174

Third Semester		Clock Hours
CJLE 1018	Basic Peace Officer III	159

Fourth Semester		Clock Hours
CJLE 1024	Basic Peace Officer IV	148

Fifth Semester		Clock Hours
CJLE 1029	Basic Peace Officer V	113
Total Clock Hours		740

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 (HSEM) 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 2301	American Government I	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	HMSY Elective	3
ELEC	Social/Behavioral Science Selection	3
EMAP 2355	Disaster Recovery	
or		
BMGT 1327	Principles of Management	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 (HSEM) 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	3
EMAP 2301	Leadership and Effective Communication	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 (RTBD) 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 1307 Introduction to Mass Communications, COMM 2331 Radio Television Announcing, COMM 2303 Audio/Radio Production, COMM 1336 Television Production I, COMM 1337 Television Production II, COMM 2327 Introduction to Advertising.

Radio Broadcasting (RTBD)

090701

Certificate of Completion

First Semester		Credit
COMM 1335	Survey of Radio/Television	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, Television 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/Television	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, Television, 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 (SOCL) 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, SOCL.

Teaching

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

Complete Core (MATH 1414 is required)	42
Initial Texas Teacher Certification requirements:	
EC-6	20
Natural Science Selection (BIOL, CHEM, PHYS, GEOL)..	8
Mathematics (MATH-1350, MATH-1351)	6
Education (EDUC-1301, EDUC-2301)	6
Total Hours	60

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 is available through 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	GOVT 2301 or 2302	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 (WLDG)

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)	4/96
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	2451	Advanced Gas Tungsten Arc (GTAW) Welding	4/96
WLDG	1435	Introduction to Pipe Welding	4/96
WLDG	2406	Intermediate Pipe Welding	4/96
WLDG	2453	Advanced Pipe Welding	4/96
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			58
Total Clock Hours			1440/1648

Fitter (WLFC)

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
WLDG	1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4/96
WLDG	1435	Introduction to Pipe Welding	4/96
WLDG	2406	Intermediate Pipe Welding	4/96
WLDG	1417	Intro to Layout and Fabrication	4/96
	or		
WLDG	2488	Internship	4/304
Total Hours			38
Total Clock Hours			960/1168

Welder (WLDG)

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	2443	Advanced Shielded Metal Arc Welding (SMAW)	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	2451	Advanced Gas Tungsten Arc (GTAW) Welding	4/96
WLDG	2406	Intermediate Pipe Welding	4/96
WLDG	2453	Advanced Pipe Welding	4/96
WLDG	2435	Advanced Layout and Fabrication	4/96
	or		
WLDG	2488	Internship	4/304
Total Hours			38
Total Clock Hours			960/1168

Tacker (WLTC)

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
WLDG	1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4/96
WLDG	1435	Introduction to Pipe Welding	4/96
WLDG	1417	Intro. to Layout and Fabrication	4/96
	or		
WLDG	2488	Internship	4/304
Total Hours			34
Total Clock Hours			864/1072