

# 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.

## Auto Collision Repair (ABC12) 470603

### Associate of Applied Science Degree

(Offered at locations outside of Texas under Military Contract Obligation)

#### First Year

First Semester			Credit
ABDR	1419	Basic Metal Repair	4
ABDR	2447	Advanced Auto Body Welding	4
ABDR	1431	Basic Refinishing	4
KINE		Physical Activity Course	1

#### Second Semester

ABDR	2449	Advanced Refinishing	4
ABDR	1449	Automotive Plastic and Sheet Molded Compound	4
ABDR	1441	Structural Analysis and Damage Repair I	4
ABDR	1442	Structural Analysis and Damage Repair II	4
MATH	1332	Contemporary Mathematics	3

#### Second Year

##### First Semester

ABDR	2435	Structural Analysis and Damage Repair IV	4
ABDR	2437	Structural Analysis and Damage Repair V	4
ELCT		Humanities/Fine Arts Selection	3
ENGL	1301	Composition I	3
GOVT	2305	Federal Government	3

##### Second Semester

ABDR	2402	Auto Body Mechanical and Electrical Service	4
AUMT	1416	Suspension and Steering	4
ELCT		Computer Technology Skills	4
SPCH		SPCH 1315 or 1321	3
AUMT	1410	Automotive Brake Systems	
or			
ABDR	2488	Internship	4
<b>Total Hours</b>			<b>68</b>

# 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.

## Automotive Mechanic/Technician (AUMT) 470604

### Associate of Applied Science Degree

#### First Year

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

#### Second Semester

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

#### Second Year

##### First Semester

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

##### Second Semester

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

## Automotive Technician (AUTT) 470604 Certificate of Completion

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

## Basic Automotive Technician (AUB13) 470604 Certificate of Completion

	Credit
AUMT 1405 Intro. to Automotive Technology	4
AUMT 1407 Automotive Electrical Systems	4
AUMT 1410 Automotive Brake Systems	4
AUMT 1416 Automotive Suspension and Steering Systems	4
AUMT 2305 Automotive Engine Theory	3
or	
AUMT 2488 Internship	4
<b>Total Hours</b>	<b>19/20</b>

## Automotive System Specialist (AUSS) 470604 Certificate of Completion

	Credit
AUMT 1405 Intro. to Automotive Technology	4
AUMT 2305 Automotive Engine Theory	3
AUMT 1407 Automotive Electrical Systems	4
AUMT 2437 Automotive Electronics	4
AUMT 1445 Automotive Climate Control Systems	4
AUMT 1410 Automotive Brake Systems	4
AUMT 1416 Automotive Suspension and Steering Systems	4
AUMT 2413 Automotive Drive Train and Axles	4
AUMT 2425 Automotive Automatic Transmissions and Transaxles	4
WLDG 2413 Intermediate Welding Using Multiple Processes	4
or	
AUMT 2488 Internship	4
<b>Total Hours</b>	<b>39</b>

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

	Credit
AUMT 1405 Intro. to Automotive Technology	4
AUMT 2305 Automotive Engine Theory	3
AUMT 1407 Automotive Electrical Systems	4
AUMT 2437 Automotive Electronics	4
AUMT 2417 Automotive Engine Performance Analysis I	4
AUMT 1472 Automotive Computer Systems	4
AUMT 2434 Automotive Engine Performance Analysis II	4
AUMT 1419 Automotive Engine Repair	4
or	
AUMT 2488 Internship	4
<b>Total Hours</b>	<b>31</b>

# Aviation Science

## Aviation Maintenance Technology (AVMT) 470608

**Associate of Applied Science Degree**  
(Offered at Pacific Far East Campus only)

The Associate of Science in Aircraft Maintenance degree combines a technical background in aircraft maintenance with a well-rounded academic program.

Central Texas College offers courses to students attending the Pacific Far East Campus who are experienced but unlicensed aircraft maintenance specialists. These courses deal largely with the theory and the concepts of all aspects of airframe and power plant maintenance; and with the problems, considerations and practices involved in maintaining aircraft in airworthy condition based upon the body of knowledge required of experienced aircraft maintenance specialists. The completion of these courses does not influence the determination by the FAA of an individual's eligibility to take the airframe and/or power plant examinations. The courses provide academic background information for the actual hands-on training the student obtains through military training courses and programs, and military experiences.

This program is not FAA approved for meeting the degree requirements to take the AandP Examinations (an alternative method for qualification in lieu of military experience). The information in the courses is provided to enhance the student's potential for successful testing based upon their military rating/Military Occupational Specialty (MOS)/Job Specialty Code. Only military members possessing applicable military operational specialty codes for US Army, US Air Force, US Navy, US Coast Guard, and US Marine Corps as listed in FAA Circular AC 65-30 series may enroll in these courses.

NO IMPLICATION FOR FAA APPROVED COURSES IS IMPLIED OR STATED IN THIS DEGREE PROGRAM.

### First Year

First Semester		Credit
ENGL 1301	Composition I	3
PHYS 1405	Elementary Physics I	4
AERM 1314	Basic Electricity	3
AERM 1203	Shop Practices	2
AERM 2351	Aircraft Turbine Engine Overhaul3	

## Second Semester

MATH	MATH 1314 or higher level	3
AERM	Selected AERM Electives	2
AERM 1444	Aircraft Reciprocating Engines	4
AERM 1208	Federal Aviation Regulations	2
AERM 1210	Ground Operations	2

## Third Semester

SPCH	SPCH 1315 or 1321	3
AERM 1452	Aircraft Sheet Metal	4

## Second Year

### First Semester

ELCT	Humanities/Fine Arts Selection	3
AERM 1456	Aircraft Power Plant Electrical	4
AERM 2231	Airframe Inspection	2
AERM 2341	Power Plant & Auxiliary Power Units	3
AERM 1254	Aircraft Composites	2

### Second Semester

AERM 1243	Instruments and Navigation/ Communications	2
AERM 1449	Hydraulic, Pneumatic, & Fuel Systems	4
AERM 1205	Weight and Balance	2
AERM	Selected AERM Elective	2
AERM	Selected AERM Elective	2

### Third Semester

AERM	Selected AERM Elective	3
ELCT	Social/Behavioral Science	3
<b>Total Hours</b>		<b>67</b>

# 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 (BUB15)

### 520101

#### Associate of Science Degree

First Semester		Credit
DEGR REQ	BUSI 1301 Business Principles	3
CORE ELEC	Life and Physical Science Selection	4
CORE REQ	HIST 1301 U.S. History I	3
CORE REQ	ENGL 1301 Composition I	3
DEGR REQ	BCIS 1305 Business Computer Apps.	3

### Second Semester

CORE ELEC	Life and Physical Science Selection	4
CORE REQ	HIST 1302 U.S. History II	3
CORE ELEC	Social & Behavioral Sciences Selection	3
CORE ELEC	Mathematics (MATH 1414)	4

## Second Year

### First Semester

DEGR REQ	ECON 2301 Macroeconomics	3
DEGR REQ	ACCT 2301 Principles of Accounting I	3
CORE ELEC	Language, Philosophy & Culture (PHIL1301 or HUMA 1315)	3
CORE REQ	GOVT 2305 Federal Government	3
CORE ELEC	Component Area Option (ENGL 1302)	3

### Second Semester

DEGR REQ	ACCT 2302 Principles of Accounting II	3
CORE REQ	GOVT 2306 Texas Government	3
DEGR REQ	ECON 2302 Microeconomics	3
CORE ELEC	Communications (SPCH 1321)	3
CORE ELEC	Creative Arts	3
<b>Total Hours</b>		<b>60</b>

## Applied Management (BUAF5) 520201

### Associate of Applied Science Degree

(Offered at locations outside of Texas under Military Contract Obligation)

### First Year

First Semester		Credit
BUSI 1301	Business Principles	3
ENGL	English Selection	3
MATH	MATH 1332, 1342 or higher level	3
BMGT 1327	Principles of Management	3
HRPO 1311	Human Relations	3

### Second Semester

BUSI 1307	Personal Finance	3
ENGL	English Selection	3
ELCT	BMGT/BUSG/ECON/MRKG	3
SPCH	Speech Selection	3
ELCT	ITSC 1309 or BCIS 1305	3

### Second Year

#### First Semester

ACCT 2301	Principles of Financial Accounting	3
HRPO 2301	Human Resource Management	3
BMGT 1301	Supervision	3
ELCT	Humanities/Fine Arts Selection	3
ELCT	BMGT/BUSG/ECON/MRKG	3

#### Second Semester

ELCT	Social/Behavioral Science Selection	3
BUSG 2305	Business Law/Contracts	3
or		
BUSI 2301	Business Law	3
MRKG 1311	Principles of Marketing	3
ELCT	BMGT/BUSG/ECON/MRKG or Approved Selection	3
ELCT	BMGT/BUSG/ECON/MRKG/ ITSW/ ITSC/ITSE	3
<b>Total Hours</b>		<b>60</b>

## Applied Management with Computer

### Applications (BUAM5) 520201

#### Associate of Applied Science Degree

(Offered at locations outside of Texas under Military Contract Obligation)

### First Year

First Semester		Credit
BMGT 1327	Principles of Management	3
ELCT	Computer Science Elective	3
ITSC 1309	Integrated Software Applications I	3
or		
BCIS 1305	Business Computer Applications	3
ENGL 1301	Composition I	3
MATH	MATH 1332, 1342 or higher level	3

<b>Second Semester</b>			
BMGT 1301	Supervision		3
BMGT 1325	Office Management		3
ITSC 1415	Project Management Software		4
ITSW 1307	Introduction to Database		3
SPCH	SPCH 1315 or 1321		3

**Second Year**

<b>First Semester</b>			
BUSG 2305	Business Law/Contracts		3
or			
BUSI 2301	Business Law		
HRPO 2301	Human Resource Management		3
ACCT 2301	Principles of Financial Accounting		3
ITSC 1405	Introduction to PC Operating Systems		4

**Second Semester**

HRPO 1311	Human Relations		3
ELCT	Computer Science Elective		4
ACCT 2302	Principles of Managerial Accounting		3
ELCT	Humanities/Fine Arts Selection		3
ELCT	Social/Behavioral Science Selection		3
<b>Total Hours</b>			<b>60</b>

**Applied Management - Military Science Specialization (BMS14) 520201**

**Associate of Applied Science Degree**  
(Offered at the Europe Campus under Military contract obligation)

**First Year**

<b>First Semester</b>			<b>Credit</b>
MTMS 1170	Military Science I		1
BMGT 1327	Principles of Management		3
ENGL	English Selection		3
MATH	MATH 1332, 1342 or higher level		3
HRPO 1311	Human Relations		3
ELCT	Computer Technology Skills		3

**Second Semester**

SPCH	Speech Selection		3
MTMS 1270	Military Science II		2
MTMS 1271	Setting Goals and Objectives		2
MTMS 1272	Job Performance and Motivation		2
MTHO 1370	Historical Principles of War		3

**Second Year**

<b>First Semester</b>			
HRPO 2301	Human Resource Management		3
BMGT 1301	Supervision		3
ELCT	Humanities/Fine Arts Selection		3
ACCT 2301	Principles of Financial Accounting		3
ELCT	BMGT/BUSG/BUSI/ECON/ MRKG/MT-		3
MTMS 2371	Management Problems		3

**Second Semester**

MTMS 2271	Military Science III		2
MTMS 2372	Ethics in Management		3
ELCT	Social/Behavioral Science Selection		3
ELCT	BMGT/BUSG/BUSI/ECON/ MRKG/MTMS		3
MTMS 2370	Advanced Leadership		3
<b>Total Hours</b>			<b>60</b>

**Business Management (BUBM5) 520201**  
**Associate of Applied Science Degree**

**First Year**

<b>First Semester</b>			<b>Credit</b>
HRPO 1311	Human Relations		3
ENGL 1301	Composition I		3
ITSC 1309	Integrated Software Applications I		3
or			
BCIS 1305	Business Computer Applications		
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	BMGT 2370, BMGT 2488 or RELE 2488		3
KINE	Physical Activity Course		1

**Second Year**

<b>First Semester</b>			
MATH	MATH 1332, 1342 or higher level		3
ACCT 2301	Principles of Financial Accounting		3
HRPO 2301	Human Resource Management		3
BUSG 2305	Business Law/Contracts		3
or			
BUSI 2301	Business Law		
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	BMGT 2371, 2489, or RELE 2489		4
<b>Total Hours</b>			<b>60</b>

**Business Management (BUBM5) 520201**  
**Certificate of Completion**

<b>First Semester</b>			<b>Credit</b>
BUSI 1301	Business Principles		3
BMGT 1327	Principles of Management		3
HRPO 1311	Human Relations		3
ITSC 1309	Integrated Software Applications I		3
or			
BCIS 1305	Business Computer Applications		
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
<b>Total Hours</b>			<b>30-31</b>

**Entrepreneurship (BUEN5) 520201**  
**Certificate of Completion**

<b>First Semester</b>			<b>Credit</b>
BUSG	2309	Small Business Management	3
POFT	1325	Business Math Using Technology	3
ITSC	1309	Integrated Software Applications	3
or			
BCIS	1305	Business Computer Applications	
MRKG	1311	Principles of Marketing	3
ACCT	2301	Principles of Financial Accounting	3
<b>Second Semester</b>			
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
<b>Total Hours</b>			<b>30-31</b>

**Business Management Marketing and Sales Management Specialization (BUMS5) 520201**  
**Associate of Applied Science Degree**

<b>First Year</b>			
<b>First Semester</b>			<b>Credit</b>
HRPO	1311	Human Relations	3
ENGL	1301	Composition I	3
BUSI	1301	Business Principles	3
ITSC	1309	Integrated Software Applications I	3
or			
BCIS	1305	Business Computer Applications	
SPCH		SPCH 1315 or 1321	3
<b>Second Semester</b>			
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, 2488 or RELE 2488	3
<b>Second Year</b>			
<b>First Semester</b>			
ECON		ECON 2301 or 2302	3
ELCT		Humanities/Fine Arts Selection	3
ELCT		BMGT/BUSI/BUSG/RELE	3
ACCT	2301	Principles of Financial Accounting	3
<b>Second Semester</b>			
ACCT	2302	Principles of Managerial Accounting	3
BUSG	2305	Business Law/Contracts	3
or			
BUSI	2301	Business Law	
MRKG	2333	Principles of Selling	3
ELCT		Elective	3
ELCT		BMGT/BUSI/BUSG/RELE	3
ELCT		BMGT 2371, 2489 or RELE 2489	3
<b>Total Hours</b>			<b>60</b>

**Business Management Marketing and Sales Management (BUMS5) 520201**  
**Certificate of Completion**

<b>First Semester</b>			<b>Credit</b>
HRPO	1311	Human Relations	3
BUSI	1301	Business Principles	3
ITSC	1309	Integrated Software Applications I	3
or			
BCIS	1305	Business Computer Applications	
ELCT		BMGT/BUSI/BUSG/RELE/HRPO	3
<b>Second Semester</b>			
MRKG	1311	Principles of Marketing	3
MRKG	2333	Principles of Selling	3
ELCT		BUSI/BMGT/BUSG/RELE/MRKG	3
ELCT		BMGT 2370, BMGT 2488, or RELE 2488	3-4
<b>Total Hours</b>			<b>24-25</b>

# Child Development

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

**Child Development (CDS15) 190709**  
**Associate of Applied Science Degree**

<b>First Year</b>			
<b>First Semester</b>			<b>Credit</b>
CDEC/TECA	1311	Educating Young Children	3
CDEC	1313	Curriculum Resources for Early Childhood Programs	3
CDEC	1319	Child Guidance	3
CDEC	1164	Practicum - Child Development	1
ENGL	1301	Composition I	3
CDEC	1359	Children with Special Needs	3
<b>Second Semester</b>			
CDEC	1358	Creative Arts for Early Childhood	3
CDEC/TECA	1354	Child Growth and Development	3
CDEC/TECA	1318	Wellness of the Young Child	3
CDEC/TECA	1303	Families, School and Community	3
CDEC	1321	The Infant and Toddler	3
<b>Second Year</b>			
<b>First Semester</b>			
CDEC	1356	Emergent Literacy for Early Childhood	3
CDEC	2164	Practicum - Child Development	1
CDEC	2307	Math & Science for Early Childhood	3
CDEC	2326	Administration of Programs for Children I	
or			
CDEC	2328	Admin. of Programs for Children II	3
SPCH		SPCH 1315, 1318, 1321 or 2341	3
MATH		MATH 1324, 1332, 1342 or higher level	
or			
ENVR	1401	Environmental Science I	4

<b>Second Semester</b>			
BCIS	1305	Business Computer Applications	3
KINE		Physical Activity Course	1
CDEC	2288	Internship - Child Care Provider/ Assistant	2
ELCT		Humanities/Fine Arts Selection	3
ELCT		Social/Behavioral Science Selection	3
<b>Total Hours</b>			<b>60</b>

### **Child Development (CDS15) 190709 Certificate of Completion**

<b>First Year</b>			
<b>First Semester</b>			<b>Credit</b>
CDEC/TECA	1311	Educating Young Children	3
CDEC	1313	Curriculum Resources for Early Childhood Programs	3
CDEC	1319	Child Guidance	3
ENGL	1301	Composition I	3
CDEC	1359	Children with Special Needs	3
KINE		Physical Activity Course	1

<b>Second Semester</b>			
CDEC/TECA	1354	Child Growth and Development	3
CDEC/TECA	1318	Wellness of the Young Child	3
CDEC/TECA	1303	Families, School and Community	3
ELCT		Computer Technology Skills (BCIS)	3
MATH		MATH 1324, 1332, 1342 or higher level	3

<b>Third Semester</b>			
SPCH		SPCH 1315, 1318, 1321 or 2341 (SPCH 1315 is preferred)	3
ELCT		Humanities/Fine Arts Selection	3
ELCT		Social/Behavioral Science Selection	3
CDEC	2326	Administration of Programs for Children I	3
CDEC	1356	Emergent Literacy for Early Childhood	3
<b>Total Hours</b>			<b>46</b>

### **Administrator's Credentials (CDA14) 190708 Certificate of Completion**

<b>First Semester</b>			
			<b>Credit</b>
CDEC/TECA	1311	Educating Young Children	3
CDEC/TECA	1303	Families, School and Community	3
CDEC	1313	Curriculum Resources for Early Childhood Programs	3
CDEC	1319	Child Guidance	3
CDEC	2326	Administration of Programs for Children I	3
ENGL	1301	Composition I	3

<b>Second Semester</b>			
CDEC/TECA	1354	Child Growth and Development	3
CDEC/TECA	1318	Wellness of the Young Child	3
CDEC	2328	Administration of Programs for Children II	3
CDEC	1164	Practicum - Child Development	1
ELCT		Computer Technology Skills	3
<b>Total Hours</b>			<b>31</b>

### **Child Development Associate (CDCD) 190709**

#### **Marketable Skills Achievement**

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

			<b>Credit</b>
CDEC	1317	Child Development Associate Training I	3
CDEC	2322	Child Development Associate Training II	3
CDEC	2324	Child Development Associate Training III	3
<b>Total Hours</b>			<b>9</b>

# Computer Science

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

### **Programmer Analyst (CSB15) 110201 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.*

<b>First Year</b>			
<b>First Semester</b>			<b>Credit</b>
COSC	1301	Introduction to Computing	3
ITSC	1309	Integrated Software Applications I	3
ITSE	1329	Programming Logic and Design	3
ENGL	1301	Composition I	3
MATH	1414	College Algebra	4

<b>Second Semester</b>			
ITSE	1302	Computer Programming (Visual Basic)	3
ITSE	2421	Object Oriented Programming (C++)	4
ITSC	1415	Project Management Software	4
ELEC		PSYC 2301 or PSYC 2315	3

<b>Second Year</b>			
<b>First Semester</b>			
ITNW	1337	Introduction to the Internet	3
ITSC	1325	Personal Computer Hardware	3
ITSW	1307	Introduction to Database	3
ELEC		PHIL 2306 or PHIL 2307	3
MATH	2412	Pre-calculus Math	4

<b>Second Semester</b>			
ITSE	2402	Intermediate Web Programming (PHP/Scripting/Mobile Apps)	4
IMED	1316	Web Design I	3
ITSY	1342	Information Technology Security (CompTIA Security+)	3
ITSE	2459	Advanced Computer Programming (C#)	4
or			
ITSE	2486	Internship – Computer Programming/ Programmer, General	4
<b>Total Hours</b>			<b>60</b>

## Information Security (CSS15) 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
ITSC 1309	Integrated Software Applications I	3
ITSE 1329	Programming Logic and Design	3
ITSY 1342	Information Technology Security (CompTIA Security+)	3
ENGL 1301	Composition I	3

### Second Semester

ITSC 1405	Introduction to PC Operating Systems	4
ITSC 2439	Personal Computer Help Desk	4
MATH 1414	College Algebra	4
ELEC	PSYC 2301 or PSYC 2315	3

### Second Year

#### First Semester

ITSC 1325	Personal Computer Hardware	3
ITNW 1358	Network+ (CompTIA Network+)	3
ITSY 2401	Firewalls and Network Security	4
MATH 2412	Pre-calculus Math	4

#### Second Semester

ITSY 2442	Incident Response and Handling	4
ITSC 1415	Project Management Software	4
ELEC	PHIL 2306 or PHIL 2307	3
ITSY 2441	Security Management Practices	4
ITSY 2459	Security Assessment & Auditing	4
ITSY 2486	Internship – Computer and Information Systems Security	

**Total Hours** 60

## Information Security Specialist (CSS15) 111003 Certificate of Completion

First Semester		Credit
ITSY 1342	Information Technology Security (CompTIA Security+)	3
ITSC 1405	Introduction to PC Operating Systems	4
ITNW 1358	Network+ (CompTIA Network+)	3
ITSY 2401	Firewalls and Network Security	4

### Second Semester

ITSC 1415	Project Management Software	4
ITSY 2442	Incident Response and Handling	4
ITSY 2441	Security Management Practices	4
ITSY 2459	Security Assessment & Auditing	4

**Total Hours** 30

## Information Technology (CSI15) 110201 Associate of Applied Science Degree

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

### First Year

First Semester		Credit
COSC 1301	Introduction to Computing	3
ITSC 1309	Integrated Software Applications I	3
ITSC 1325	Personal Computer Hardware (CompTIA A+)	3
ENGL 1301	Composition I	3
MATH 1414	College Algebra	4

### Second Semester

ITSC 1405	Introduction to PC Operating Systems	4
ITSC 1415	Project Management Software	4
ITNW 1358	Network+ (CompTIA Network+)	3
MATH 2412	Pre-calculus Math	4

### Second Year

#### First Semester

ITSY 1342	Information Technology Security (CompTIA Security+)	3
ITSY 2442	Incident Response and Handling	4
ITNW 1337	Introduction to the Internet	3
ITSE 1329	Programming Logic and Design	3

#### Second Semester

ITSE 1302	Computer Programming (Visual Basic)	3
ITSW 1307	Introduction to Database	3
ELEC	PHIL 2306 or PHIL 2307	3
ELEC	PSYC 2301 or PSYC 2315	3
ITSC 2439	Personal Computer Help Desk Support 4	
ITSC 2486	Internship – Computer and Information Sciences, General	

**Total Hours** 60

## Network Systems Administrator (CSN15) 110201 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 1309	Integrated Software Applications I	3
ITSE 1329	Programming Logic and Design	3
ITNW 1358	Network+ (CompTIA Network+)	3
ENGL 1301	Composition I	3
MATH 1414	College Algebra	4

### Second Semester

ITSC 1405	Introduction to PC Operating Systems	4
ITSC 1415	Project Management Software	4
ITNW 1316	Network Administration	3
ITSY 2401	Firewalls and Network Security	4
MATH 2412	Pre-calculus Math	4

**Second Year****First Semester**

ITNW 1337	Introduction to the Internet	3
ELEC	PSYC 2301 or PSYC 2315	3
ITNW 1345	Implementing Network Directory Services	3
ITNW 1353	Supporting Network Server Infrastructure	3

**Second Semester**

ITNW 2356	Designing a Network Directory Infrastructure	3
ITNW 2354	Internet/Intranet Server	3
ELEC	PHIL 2306 or PHIL 2307	3
ITNW 1454	Implementing and Supporting Servers	4
or		
ITNW 2488	Internship – Computer Systems Networking and Telecommunications	3

**Total Hours** 60

### Network Specialist (CSN15) 110201 Certificate of Completion

**First Semester** **Credit**

ITSC 1325	Personal Computer Hardware (CompTIA A+)	3
ITNW 1358	Network+ (CompTIA Network+)	3
ITSE 1329	Programming Logic and Design	3
ITNW 1337	Introduction to the Internet	3
ITNW 1316	Network Administration	3

**Second Semester**

ITNW 1345	Implementing Network Directory Services	3
ITNW 2356	Designing a Network Directory Infrastructure	3
ITNW 1353	Supporting Network Server Infrastructure	3
ITNW 2354	Internet/Intranet Server	3
ITNW 1454	Implementing and Supporting Servers	4

**Total Hours** 31

### Computer Helpdesk Specialist (CSI15) 110301 Certificate of Completion

**First Semester** **Credit**

ITSC 1309	Integrated Software Applications I	3
ITSC 1325	Personal Computer Hardware (CompTIA A+)	3
ITNW 1358	Network+ (CompTIA Network+)	3
ITNW 1337	Introduction to the Internet	3
ITSC 1405	Introduction to PC Operating Systems	4

**Second Semester**

ITSY 1342	Information Technology Security (CompTIA Security+)	3
ITSC 1415	Project Management Software	4
ITSE 1329	Programming Logic and Design	3
ITSC 2439	Personal Computer Help Desk Support	4

**Total Hours** 30

### Web Design Basics (CSW15) 111004 Certificate of Completion

**First Semester** **Credit**

ITSC 1405	Introduction to PC Operating Systems	4
ITNW 1337	Introduction to the Internet	3
ITSY 1342	Information Technology Security (CompTIA Security+)	3
ITSE 1329	Programming Logic and Design	3
ITSC 1415	Project Management Software	4

**Second Semester**

IMED 1316	Web Design I	3
ITSW 1307	Introduction to Database	3
ITSE 2402	Intermediate Web Programming (PHP/Scripting/Mobile Apps)	4
ITSE 1302	Computer Programming (Visual Basic)	3

**Total Hours** 30

### IT Industry Certification Preparation Program (MCS15) 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**

ITSC 1325	Personal Computer Hardware (CompTIA A+)	3
ITNW 1358	Network+	3
ITNW 1316	Network Administration	3
ITNW 1345	Implementing Network Directory Services	3
ITNW 1454	Implementing and Supporting Servers	4
ITSY 1342	Information Technology Security (CompTIA Security+)	3

**Total Hours** 19

### Software Development & Testing Specialist (CSV15) 110201 Certificate of Completion

*Only active duty military members who enroll as part of the MSSA cohort will be assigned (CSV15.CC1) degree plan/major code.*

**Credit**

MATH 1342	Elementary Statistical Methods	3
ITSE 1329	Programming Logic and Design	3
ITSW 1307	Introduction to Database	3
ITSE 2459	Advanced Computer Programming (C#)	4
IMED 1316	Web Design I	3

**Total Hours** 16

### Software Development & Testing Specialist (CST15) 110201 Certificate of Completion

*Students interested in Software Development & Training but are not part of the MSSA cohort, will be assigned (CST15.CC1) degree plan/major code.*

**Credit**

MATH 1342	Elementary Statistical Methods	3
ITSE 1329	Programming Logic and Design	3
ITSW 1307	Introduction to Database	3
ITSE 2459	Advanced Computer Programming (C#)	4
IMED 1316	Web Design I	3

**Total Hours** 16



## Network Server & Cloud Administrator (CSCA5) 111002

### Certificate of Completion

Only active duty military members who enroll as part of the MSSA cohort will be assigned (CSCA5.CC1) degree plan/major code.

			Credit
ITNW	1316	Network Administration	3
ITNW	1345	Implementing Network Directory Services	3
ITNW	1454	Implementing and Supporting Servers	4
ITNW	2356	Designing a Network Directory Infrastructure	3
ITNW	1353	Supporting Network Server Infrastructure	3
ITNW	2354	Internet/Intranet Server	3
<b>Total Hours</b>			<b>19</b>

## Network Server & Cloud Administrator (CSC15) 111002

### Certificate of Completion

Students interested in Software Development & Training but are not part of the MSSA cohort, will be assigned (CSC15.CC1) degree plan/major code.

			Credit
ITNW	1316	Network Administration	3
ITNW	1345	Implementing Network Directory Services	3
ITNW	1454	Implementing and Supporting Servers	4
ITNW	2356	Designing a Network Directory Infrastructure	3
ITNW	1353	Supporting Network Server Infrastructure	3
ITNW	2354	Internet/Intranet Server	3
<b>Total Hours</b>			<b>19</b>

# Drafting and Design

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

## Computer-Aided Drafting and Design (DFT12) 151301

### Associate of Applied Science Degree

#### First Year

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

#### Second Semester

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

#### Second Year

##### First Semester

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

##### Second Semester

DFTG	2423	Pipe Drafting	4
DFTG	2421	Topographical Drafting	4
DFTG	2438	Final Project -Advanced Drafting	4
ELCT		Social/Behavioral Science Selection	3
<b>Total Hours</b>			<b>66-67</b>

## Computer-Aided Drafting and Design (DFT12) 151301

### Certificate of Completion

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

# 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.

## Communications Electronics (ELC4) 150305

### Associate of Applied Science Degree

(Offered at locations outside of Texas under Military Contract Obligation)

#### First Year

First Semester			Credit
CETT	1321	Electronics Fabrication	3
CETT	1325	Digital Fundamentals	3
CETT	1303	DC Circuits	3
CPMT	1303	Introduction to Computer Technology	3

#### Second Semester

MATH		MATH 1332, 1342 or higher level	3
CETT	1305	AC Circuits	3
CETT	1429	Solid State Devices	4
ENGL	1301	Composition I	3
ELCT		Social/Behavioral Science Selection	3

**Second Year****First Semester**

CSIR 1359	Digital Data Communications	3
CETT 1449	Digital Systems	4
CETT 1441	Solid State Circuits	4
SPCH	SPCH 1315 or 1321	3

**Second Semester**

EECT 2439	Communications Circuits	4
ELMT 2435	Certified Electronics Tech. Training	4
ELCT	Humanities/Fine Arts Selection	3
EECT 2435	Telecommunications	4
ELCT	Academic Elective from Humanities/ Fine Arts, Social/Behavioral Science, Natural Science/Mathematics	3

**Total Hours 60****Computer Electronics (ELC14)  
151202****Associate of Applied Science Degree****First Year**

<b>First Semester</b>		<b>Credit</b>
CETT 1321	Electronics Fabrication	3
CETT 1325	Digital Fundamentals	3
CETT 1303	DC Circuits	3
CPMT 1303	Introduction to Computer Technology	3

**Second Semester**

MATH	MATH 1332, 1342 or higher level	3
CETT 1305	AC Circuits	3
CETT 1429	Solid State Devices	4
ENGL 1301	Composition I	3
ELCT	Social/Behavioral Science Selection	3

**Second Year****First Semester**

CPMT 1345	Computer Systems Maintenance	3
CPMT 1449	Computer Networking Technology	4
CETT 1449	Digital Systems	4
CETT 1441	Solid State Circuits	4

**Second Semester**

CPMT 1404	Microcomputer Systems Software	4
ELMT 2435	Certified Electronics Tech. Training	4
ELCT	Humanities/Fine Arts Selection	3
ELMT 1301	Programmable Logic Controllers	3
SPCH	SPCH 1315 or 1321	3

**Total Hours 60****Computer Electronics Technology  
(ELC14) 151202****Certificate of Completion**

<b>First Semester</b>		<b>Credit</b>
CPMT 1303	Introduction to Computer Technology	3
CETT 1325	Digital Fundamentals	3
CETT 1303	DC Circuits	3
ENGL 1301	Composition I	3

**Second Semester**

CETT 1305	AC Circuits	3
CETT 1429	Solid State Devices	4
CPMT 1345	Computer Systems Maintenance	3
SPCH	SPCH 1315 or 1321	3

**Total Hours 25**

# Emergency Medical Technology

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

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

<b>First Semester</b>		<b>Credit</b>
EMSP 1401	Emergency Medical Technician - Basic	4
EMSP 1160	Clinical-EMT	1
BIOL 2401	Anatomy and Physiology I	4
PSYC 2314	Life Span Growth and Development	3
KINE	Physical Activity Course	1

**Second Semester**

EMSP 1356	Patient Assessment and Airway Management	3
EMSP 1338	Introduction to Advanced Practice	3
EMSP 1355	Trauma Management	3
EMSP 1166	Practicum-EMT	1
BIOL 2402	Anatomy and Physiology II	4
ELCT	Elective	3

**Third Semester**

EMSP 2444	Cardiology	4
ENGL 1301	Composition I	3
PSYC 2301	General Psychology	3

**Second Year****First Semester**

EMSP 2434	Medical Emergencies	4
SPCH	SPCH 1315, 1318 or 1321	3
KINE	Physical Activity Course	1
ELCT	Humanities/Fine Arts Selection	3
EMSP 1167	Practicum-EMT	1

**Second Semester**

EMSP 2330	Special Populations	3
BIOL 2420	Microbiology for Non-science Majors*	4
ITSC 1409	Integrated Software Applications I	4

**Third Semester**

EMSP 2143	Assessment Based Management	1
EMSP 1268	Practicum-EMT	2
EMSP 2338	EMS Operations	3

**Total Hours 69**

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

## EMT - Paramedic (EMP9)

510904

### Certificate of Completion

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

Upon successful completion of EMSP 1355, EMSP 1356, EMSP 1338 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
<b>Total Hours</b>		<b>33</b>

## 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 (GST4) 240102 Associate of Arts Degree

This is a suggested curriculum.  
Students must have a minimum of 15 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	SPCH1315, 1318 or 1321	3
HIST 1302	United States History II	3
ELCT	MATH/Natural Science Selection	3-4
ELCT	Electives*	4

#### Second Year

First Semester		
GOVT 2305	Federal Government	3
ELCT	Electives*	12

#### Second Semester

GOVT 2306	Texas Government	3
ELCT	Humanities/Fine Arts Selection	3
ELCT	Electives*	10
<b>Total Hours</b>		<b>60-61</b>

Students who plan to transfer to other institutions for degree completion or to pursue a more advanced degree are advised to consult with officials of receiving school for degree requirements and transfer policy.

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

## Heating and Air Conditioning

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

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

### Heating, Air Conditioning and Refrigeration Mechanic and Repairer (HART) 470201

#### Associate of Applied Science Degree

#### First Year

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

#### Second Semester

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

#### Second Year

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

#### Second Semester

HART 2436	Air Conditioning Troubleshooting	4
HART 2431	Advanced Electricity for HVAC	4
SPCH	SPCH 1315 or 1321	3
HART 2445	Residential Air Conditioning System Design	

or		
HART 2488	Internship	4
<b>Total Hours</b>		<b>68</b>

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

### First Year

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

### Second Semester

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

### Second Year

#### First Semester

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

#### Second Semester

HART 2436	Air Conditioning Troubleshooting	4
HART 2431	Advanced Electricity for HVAC	4
HART 2445	Residential Air Conditioning System Design	4

or

HART 2488	Internship	4
<b>Total Hours</b>		<b>48</b>

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

### First Semester

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

### Second Semester

HART 2431	Advanced Electricity for HVAC	4
HART 2442	Commercial Refrigeration	4
HART 1403	Air Conditioning Control Principles	4
HART 2436	Air Conditioning Troubleshooting	4
HART 2445	Residential Air Conditioning System Design	4
HART 2438	Air Conditioning Installation and Startup	4

or

HART 2488	Internship	4
<b>Total Hours</b>		<b>40</b>

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

### First Semester

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
<b>Total Hours</b>		<b>40</b>

# Hospitality Management

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

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

## Restaurant and Culinary Management (RCM13) 520901 Associate of Applied Science Degree

### First Year

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

### Second Semester

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

### Second Year

First Semester		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	HAMG/RSTO/TRVM	3

<b>Second Semester</b>			
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	
<b>Total Hours</b>		<b>66</b>	

### **Hotel Management Specialization (HMH13) 520901 Associate of Applied Science Degree**

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

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

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

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

\* HAMG 1324 may substitute.

### **Culinary Arts (HMC13) 520905 Associate of Applied Science Degree**

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

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

<b>Second Year</b>			
<b>First Semester</b>			<b>Credit</b>
HAMG 2301	Principles of Food and Beverage Operations	3	
KINE	Physical Activity Course	1	
IFWA 1318	Nutrition for the Food Service Professional	3	
ENGL 1301	Composition I	3	
PSTR 1301	Fundamentals of Baking	3	
CHEF 1341	American Regional Cuisine	3	
CHEF 1345	International Cuisine	3	

<b>Second Semester</b>			
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	
<b>Total Hours</b>		<b>67</b>	

### **Culinary Arts (HMC13) 520905 Certificate of Completion**

<b>First Semester</b>			<b>Credit</b>
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	

<b>Second Semester</b>			
CHEF 1410	Garde Manger	4	
HAMG 2301	Principles of Food and Beverage Operations	3	
ELCT	CHEF/PSTR	3	

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

### **Restaurant Skills (HMR13) 520905 Certificate of Completion**

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

**Baking (HMBK9) 520905**  
**Certificate of Completion**

		<b>Credit</b>
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
<b>Total Hours</b>		<b>21</b>

**Property Management Advanced (HMP13) 520904**  
**Certificate of Completion**

		<b>Credit</b>
<b>First Semester</b>		
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

<b>Second Semester</b>		
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

<b>Third Semester</b>		
HAMG 1342	Guest Room Maintenance	3
HAMG 2388	Internship	3
<b>Total Hours</b>		<b>36</b>

**Rooms Division (HRD13) 520904**  
**Certificate of Completion**

		<b>Credit</b>
<b>First Semester</b>		
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

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

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

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

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

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

<b>Second Semester</b>		
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
<b>Total Hours</b>		<b>66</b>

**Food and Beverage Management (HMF13) 520905**  
**Certificate of Completion**

(Offered at locations outside of Texas under Military Contract Obligation)

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

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

**Hospitality**  
**Select three of the following courses:**

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

# 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 (IDS4) 240101

### Associate of Arts Degree

#### First Year

First Semester	Credit
CORE REQ ENGL 1301 Composition I	3
CORE REQ HIST 1301 United States History I	3
CORE ELEC Creative Art Selection	3
CORE REQ GOVT 2306 Texas Government	3
CORE ELEC Language/Philosophy/Cultural Studies	3

#### Second Semester

CORE ELEC SPCH 1315, 1318 or 1321	3
CORE REQ HIST 1302 United States History II	3
CORE ELEC Component Area Option	3
CORE ELEC Component Area Option (KINE)	1
CORE REQ Life and Physical Science Selection	4
CORE ELEC Social/Behavioral Science Selection	3

#### Second Year

##### First Semester

CORE REQ GOVT 2305 Federal Government	3
CORE REQ MATH 1332, 1342 or 1414	3-4
CORE ELEC Life and Physical Science Selection	4
DEGR REQ Electives*	18
<b>Total Hours</b>	<b>60-61</b>

\* Students may select 18 semester credit hours from courses that fulfill the student's educational goals.

# Legal Assistant

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

## Paralegal/Legal Assistant (LAS14) 220302

### Associate of Applied Science Degree

#### First Year

First Semester	Credit
LGLA 1301 Legal Research and Writing	3
LGLA 1307 Introduction to Law and the Legal Profession	3
ENGL 1301 Composition I	3
ELCT Humanities/Fine Arts Selection	3
ELCT ITSW 1401 or ITSC 1409	4

#### Second Semester

LGLA 1317 Law Office Technology	3
LGLA 1345 Civil Litigation	3
LGLA 1351 Contracts	3
LGLA 1355 Family Law	3
MATH MATH 1324 or 1342 or 1332	3
SPCH SPCH 1315 or 1321	3

#### Second Year

##### First Semester

LGLA 1353 Wills, Trusts, and Probate Administration	3
POFT 1207 Proofreading and Editing	2
LGLA 2303 Torts and Personal Injury Law	3
POFT 1329 Beginning Keyboarding	
or	
POFT 2312 Business Correspondence and Communication	3
GOVT 2305 Federal Government	3

##### Second Semester

LGLA 2313 Criminal Law and Procedures	3
POFT 1309 Administrative Office Procedures I	3
LGLA Legal Elective	3
LGLA Legal Elective	3
LGLA 2333 Advanced Legal Document Preparation	
or	
LGLA 2335 Advanced Civil Litigation	3
<b>Total Hours</b>	<b>63</b>

# 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.

## Maintenance Technology (MTN12) 460401

### Associate of Applied Science Degree

#### First Year

First Semester	Credit
CRPT 1429 Introduction to Carpentry	4
HART 1407 Refrigeration Principles	4
or	
WDWK1413 Cabinet Making I	
CRPT 1423 Floor Systems	4
MATH 1332 Contemporary Mathematics	3
KINE Physical Activity Course	1

#### Second Semester

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

## Second Year

### First Semester

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

### Second Semester

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

# 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 (MAT4) 270101

### Associate of Science Degree

Fall Semester		Credit
CORE REQ HIST 1301	United States History I	3
CORE REQ GOVT 2306	Texas Government	3
CORE ELEC	Language/Philosophy/Cultural Studies	3
CORE ELEC	Mathematics (MATH 1414)	4

### Spring Semester

CORE REQ ENGL 1301	Composition I	3
CORE REQ HIST 1302	United States History II	3
CORE ELEC	Life and Physical Science Selection	4
DEGR REQ MATH 2412	Pre-Calculus Math	4

### Summer Semester

DEGR REQ MATH 2413	Calculus I	4
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## Second Year

### First Semester

CORE ELEC SPCH 1315, 1318 or 1321		3
CORE ELEC	Creative Art Selection	3
CORE REQ GOVT 2305	Federal Government	3
CORE ELEC	Social/Behavioral Science Selection	3
DEGR REQ MATH 2414	Calculus II	4

### Second Semester

DEGR REQ MATH 2415	Calculus III	4
DEGR REQ MATH 1342 or 2318		3
CORE ELEC	Component Area Option	3
CORE ELEC	Life and Physical Science Selection	4
<b>Total Hours</b>		<b>61</b>

# 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 (MHAF4)

### 511503

### Associate of Applied Science Degree

#### First Year

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

#### Second Semester

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

## Second Year

### First Semester

ENGL 1302	Composition II	3
DAAC 2307	Addicted Family Intervention	3
DAAC 1311	Counseling Theories	3
PSYT 2331	Abnormal Psychology	3
DAAC 2354	Dynamics of Group Counseling	3

### Second Semester

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

**Total Hours** **60**



**At Risk Youth Advanced Certificate  
(MHA14) 511503  
Certificate of Completion**

<b>First Semester</b>		<b>Credit</b>
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

<b>Second Semester</b>		
CMSW 1309	Problems of Children and Adolescents	3
CMSW 1166	Practicum	1
DAAC 2306	Substance Abuse Prevention I	3
PSYT 2321	Crisis Intervention	3
DAAC 2307	Addicted Family Intervention	3
DAAC 1311	Counseling Theories	3

<b>Third Semester</b>		
PSYT 2331	Abnormal Psychology	3
DAAC 2354	Dynamics of Group Counseling	3
PSYT 2345	Principles of Behavior Management and Modification	3

<b>Second Year</b>		
<b>First Semester</b>		
SCWK 2301	Assessment and Case Management	3
CMSW 1167	Practicum	1
<b>Total Hours</b>		<b>44</b>

**Chemical Dependency Specialization  
(MHCF4) 511503  
Associate of Applied Science Degree**

<b>First Year</b>		
<b>First Semester</b>		<b>Credit</b>
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

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

<b>Second Year</b>		
<b>First Semester</b>		
ENGL 1302	Composition II	3
DAAC 2307	Addicted Family Intervention	3
DAAC 1311	Counseling Theories	3
PSYT 2331	Abnormal Psychology	3
DAAC 2354	Dynamics of Group Counseling	3

<b>Second Semester</b>		
MATH 1414	College Algebra	4
PSYT 2345	Principles of Behavior Management and Modification	3
DAAC 2341	Counseling Alcohol and Other Drug Addictions	3
DAAC 2367	Practicum	3
ELCT	Humanities/Visual/Performing Arts Selection	3
<b>Total Hours</b>		<b>62</b>

**Chemical Dependency Counseling  
(MHC14) 511503  
Certificate of Completion**

<b>First Semester</b>		<b>Credit</b>
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

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

<b>Third Semester</b>		
PSYT 2331	Abnormal Psychology	3
DAAC 2354	Dynamics of Group Counseling	3
PSYT 2345	Principles of Behavior Management and Modification	3

<b>Second Year</b>		
<b>First Semester</b>		
DAAC 2341	Counseling Alcohol and Other Drug Addictions	3
DAAC 2367	Practicum	3
<b>Total Hours</b>		<b>46</b>

**Criminal Justice Addictions (MCJ13)  
511503  
Certificate of Completion**

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

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

<b>Third Semester</b>		
PSYT 2345	Principles of Behavior Management and Modification	3
DAAC 2354	Dynamics of Group Counseling	3
DAAC 2301	Therapeutic Communities in a Criminal Justice Setting	3

<b>Second Year</b>		
<b>First Semester</b>		
DAAC 2341	Counseling Alcohol & Other Drug Addictions	3
DAAC 2367	Practicum	3
<b>Total Hours</b>		<b>46</b>

## Social Work Specialization (MHSF4)

**511503**

**Associate of Applied Science**

### First Year

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

### Second Semester

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

### Second Year

#### First Semester

ENGL 1302	Composition II	3
SOCW 2361	Introduction to Social Work	3
DAAC 1311	Counseling Theories	3
PSYT 2331	Abnormal Psychology	3
DAAC 2354	Dynamics of Group Counseling	3

#### Second Semester

MATH 1414	College Algebra	4
SOCW 2362	Social Welfare as a Social Institution	3
SCWK 2301	Assessment & Case Management	3
CMSW 1167	Practicum	1
ELCT	Humanities/Visual/Performing Arts Selection	3

**Total Hours 60**

## Basic Mental Health Professional (MHBP) 511501

**Certificate of Completion**

### First Semester

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

### Second Semester

CMSW 1309	Problems of Children & Adolescents	3
CMSW 1166	Practicum	1

**Total Hours 19**

## Substance Abuse Prevention Specialist (MHP14) 511501

**Certificate of Completion**

### First Semester

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

### Second Semester

CMSW 1309	Problems of Children & Adolescents	3
CMSW 1166	Practicum	1
DAAC 2306	Substance Abuse Prevention I	3
PSYT 2321	Crisis Intervention	3
DAAC 2307	Addicted Family Intervention	3

### Third Semester

DAAC 2353	Substance Abuse Prevention II	3
PSYT 2345	Principles of Behavior Management and Modification	3
DAAC 1167	Practicum	1

**Total Hours 35**

# NCO LEAD

## Supervision Management (SUM11) 999999

**Certificate of Completion**

(Selected locations only)

### Required for Certificate

MTCS 1174	Academic Research Using the Internet	1
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### Take 14 Semester Hours from the courses below:

BMGT 1177	Critical and Creative Thinking	1
MTBC 1170	Conducting Briefings	1
MTBC 1171	Effective Writing I	1
MTBC 1173	Effective Writing II	1
MTCS 1173	Introduction to Computers	1
MTCS 1175	Basic Keyboarding Using the Computer	1
MTES 1170	Professional Ethics	1
MTES 1171	Professional Values	1
MTHO 1170	Historical Principles of War	1
MTHR 1170	Preparing Efficiency Reports	1
MTHR 1171	Performance Oriented Training	1
MTHR 1172	Prevention of Sexual Harassment	1
MTHR 1173	Counseling Practicum Technique	1
MTHR 1174	Time Management	1
MTHR 1175	Career Management	1
MTHR 1176	Stress Management	1
MTIR 1170	Interpersonal Relationships	1
MTLE 1170	Crime Prevention	1
MTLM 1170	Managerial Planning	1
MTLM 1171	Managing Resources	1
MTMM 1170	Increasing Work Site Efficiency	1
MTMM 1171	Problem Solving	1
MTOB 1170	Styles of Leadership	1
MTOB 1171	Improving Work Performance	1
MTPF 1170	Personal Financial Management I	1
MTPF 1171	Personal Financial Management II	1
POFT 1132	Workplace Diversity	1
PSYT 1170	Crisis Intervention I	1
PSYT 1171	Crisis Intervention II	1

**Total Hours 15**

# 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.

## Executive Assistant (OTE14) 520401 Associate of Applied Science Degree

### First Year

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

### Second Semester

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

### Second Year

#### First Semester

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

#### Second Semester

POFI 1349	Spreadsheets		3
POFT 1349	Administrative Office Procedures II		3
POFT 2333	Advanced Keyboarding		3
ELCT	Social/Behavioral Science Selection		3
ELCT	POFI/POFT Internship Selection		3
<b>Total Hours</b>			<b>63</b>

## Administrative Support (OTA12) 520401

### Certificate of Completion

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

### Second Semester

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

### Third Semester

POFI 2331	Desktop Publishing		3
POFI 1349	Spreadsheets		3
SPCH	SPCH 1315 or 1321		3
ELCT	POFI/POFT Internship Selection		3

**Total Hours** 46

## Office Assistant (OTOA) 520401 Certificate of Completion

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

### Second Semester

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

## Office Management (OTO12) 520401 Associate of Applied Science Degree

### First Year

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

### Second Semester

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

### Second Year

#### First Semester

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

#### Second Semester

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

**Office Management (OTM12) 520401**  
**Certificate of Completion**

**First Year**

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

**Second Semester**

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

**Second Year**

**First Semester**

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

**Second Semester**

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

**Office Management (OTOM) 520401**  
**Certificate of Completion**

**First Semester**

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

**Second Semester**

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

**Software Applications Specialist (OTSA4) 520407**  
**Certificate of Completion**

			<b>Credit</b>
POFI 1301	Computer Applications I		3
POFT 1329	Beginning Keyboarding		3
POFI 2301	Word Processing		3
POFT 2333	Advanced Keyboarding		3
POFI 1349	Spreadsheets		3
<b>Total Hours</b>			<b>15</b>

**Health Management Related**

**Medical Office Specialist (OTMO) 510716**

**Certificate of Completion**

(Courses offered through online delivery formats only outside of Texas.)

**First Semester**

<b>First Semester</b>			<b>Credit</b>
POFT 1329	Beginning Keyboarding		3
POFM 1317	Medical Administrative Support		3
HITT 1305	Medical Terminology I		3
POFT 1301	Business English		3

**Second Semester**

POFI 1301	Computer Applications I		3
POFT 2312	Business Correspondence and Communication		3
POFT 1319	Records & Information Mgmt. I		3
POFT 1325	Business Math Using Technology		3

**Third Semester**

POFI 2301	Word Processing		3
POFI 1349	Spreadsheets		3
POFM 1302	Medical Software Applications		3
POFM 1327	Medical Insurance		3

**Fourth Semester**

POFI 2386	Internship		3
<b>Total Hours</b>			<b>39</b>

**Medical Coding and Billing (OTMC) 510713**

**Certificate of Completion**

(Courses offered in the online delivery format only)

**First Semester**

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

**Second Semester**

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

**Third Semester**

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

**Fourth Semester**

HITT 2346	Advanced Medical Coding		3
HITT 2166	Practicum/Field Experience		1
<b>Total Hours</b>			<b>39</b>

## Medical Documentation Specialist (OTMD4) 510716

### Certificate of Completion

(Courses offered in the online delivery format only)

First Semester			Credit
POFT	1329	Beginning Keyboarding	3
POFM	1317	Medical Administrative Support	3
HITT	1305	Medical Terminology I	3
MRMT	1307	Medical Transcription I	3
Second Semester			
POFT	1301	Business English	3
POFI	2301	Word Processing	3
HITT	1303	Medical Terminology II	3
MRMT	2333	Medical Transcription II	3
Third Semester			
POFM	2333	Medical Document Production	3
HITT	1249	Pharmacology	2
POFT	1207	Proofreading and Editing	2
MDCA	1302	Human Disease/Pathophysiology	3
POFM	1302	Medical Software Applications	3
Fourth Semester			
MRMT	2166	Practicum	1
<b>Total Hours</b>			<b>38</b>

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

## Second Semester

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

\* 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			
CJSA 1327/CRIJ 1310		Fundamentals of Criminal Law	3
CJCR 1304		Probation and Parole	3
CJSA 1348		Ethics in Criminal Justice	3
ENGL		ENGL 1302 or 2311	3
MATH		MATH 1332, 1342 or higher level	3
KINE		Physical Activity Course	1
Second Year			
First Semester			
CJCR 1307/CRIJ 2313		Correctional Systems and Practices	3
CJCR 2324/CRIJ 2301		Community Resources in Corrections	3
CJSA 1351		Use of Force*	3
ELCT		Criminal Justice Elective	3
SOCI 1301		Introduction to Sociology	3
GOVT 2305		Federal Government	3
Second Semester			
CJCR 1358		Rights of Prisoners	3
CJLE 1211		Basic Firearms*	2
ELCT		Criminal Justice Elective	3
SPCH		SPCH 1315 or SPCH 1321	3
ELCT		Humanities/Fine Arts Selection	3
ELCT		Computer Technology Skills	3
<b>Total Hours</b>			<b>67</b>

\* 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
<b>Core Courses Total</b>		<b>15</b>

### (Criminal Justice Studies Specialization-CJCJ)

#### Second Semester

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

### (Criminal Justice Corrections Specialization-CJCR)

#### Second Semester

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

## Fire Protection (FIP12) 430202 Associate of Applied Science Degree

(Offered at locations outside of Texas under Military Contract Obligation)

### First Year

First Semester		Credit
FIRT 1301	Fundamentals of Fire Protection	3
FIRT 1309	Fire Administration I	3
FIRT 1333	Fire Chemistry I	3
FIRT 1338	Fire Protection Systems	3
ENGL 1301	Composition I	3
KINE 1125	Physical Conditioning I	1

### Second Semester

FIRT 1307	Fire Prevention Codes and Inspection	3
FIRT 1319	Firefighter Health and Safety	3
FIRT 2309	Firefighting Strategies and Tactics I	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
FIRT 1315	Hazardous Materials I	3
FIRT 1329	Building Codes and Construction	3
FIRT 1303	Fire and Arson Investigation I	3
FIRT	Technical Elective	3
or		
EMSP 1401	Emergency Medical Technician Basic and	4
EMSP 1160	Clinical - Emergency Medical Technology/Technician	1
SOCI 1301	Introduction to Sociology	3
GOVT 2305	Federal Government	3

### Second Semester

FIRT 1347	Industrial Fire Protection	3
FIRT 2331	Firefighting Strategies and Tactics II	3
FIRT 1349	Fire Administration II	3
SPCH 1321	Business and Professional Communication	3
ELCT	Humanities/Fine Arts Selection	3
ELCT	Computer Technology Skills	3
<b>Total Hours</b>		<b>68-70</b>

## Fire Protection (FIP12) 430202 Certificate of Completion

(Offered at locations outside of Texas under Military Contract Obligation)

### First Semester

First Semester		Credit
FIRT 1301	Fundamentals of Fire Protection	3
FIRT 2309	Firefighting Strategies and Tactics I	3
FIRT 1338	Fire Protection Systems	3
FIRT 1309	Fire Administration I	3
FIRT 1315	Hazardous Materials I	3

### Second Semester

FIRT 1307	Fire Prevention Codes and Inspections	3
FIRT 1303	Fire and Arson Investigation I	3
FIRT 2331	Firefighting Strategies and Tactics II	3
FIRT 1333	Fire Chemistry I	3
FIRT	Technical Elective	3
or		
EMSP 1401	Emergency Medical Technician Basic and	4
EMSP 1160	Clinical - Emergency Medical Technology/Technician	1
<b>Total Hours</b>		<b>30-32</b>

# Public Administration

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

## Homeland Security and Emergency Management (HS13) 440401 Associate of Applied Science Degree

### First Year

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

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

### **Second Year**

#### **First Semester**

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

#### **Second Semester**

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

## **Homeland Security and Emergency Management (HS13) 440401** **Certificate of Completion**

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

#### **Second Semester**

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

# 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 (SOC4) 450101**

### **Associate of Arts Degree**

<b>First Semester</b>			<b>Credit</b>
CORE REQ	ENGL 1301	Composition I	3
CORE REQ	HIST 1301	United States History I	3
CORE ELEC		Creative Art Selection	3
CORE REQ	MATH 1332, 1342 or 1414		3-4
CORE ELEC		Language/Philosophy/Cultural Studies	3

#### **Second Semester**

CORE REQ	SPCH 1315, 1318 or 1321		3
CORE REQ	HIST 1302	United States History II	3
CORE ELEC		Component Area Option	3
CORE ELEC		Component Area Option (KINE)	1
CORE REQ		Life and Physical Science Selection	4
CORE REQ	GOVT 2305	Federal Government	3

#### **Second Year**

##### **First Semester**

CORE ELEC	Social/Behavioral Science Selection		3
CORE REQ	GOVT 2306	Texas Government	3
CORE ELEC		Life and Physical Science Selection	4
DEGR REQ		Foreign Language	4

#### **Second Semester**

DEGR REQ	Social and Behavioral Science Selection		3
DEGR REQ	Social and Behavioral Science Selection		3
DEGR REQ	Foreign Language		4
DEGR REQ	KINE	Physical Activity Course	1
DEGR REQ	Social and Behavioral Science Selection		3
<b>Total Hours</b>			<b>60-61</b>

# Teacher Education

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

## **Teaching Certification (TEA5) 131210**

### **Associate of Arts in Teaching Degree**

#### **First Year**

<b>First Semester</b>			<b>Credit</b>
EDUC 1301	Intro to Teaching Profession**		3
MATH 1414	College Algebra*		4
ENGL 1301	Composition I*		3
ELCT	Life and Physical Science Selection*		4
KINE	Physical Activity Course*		1

<b>Second Semester</b>			
MATH	1350	Fundamentals of Math I**	3
ELCT		Life and Physical Science Selection*	4
HIST	1301	United States History I*	3
SPCH		SPCH 1315, 1318 or 1321*	3

### **Second Year**

<b>First Semester</b>			
MATH	1351	Fundamentals of Math II**	3
ENGL	2327	American Literature I*	3
GOVT	2305	Federal Government*	3
HIST	1302	United States History II*	3
ELEC		Life and Physical Science Selection**	4

### **Second Semester**

EDUC	2301	Intro to Special Populations**	3
ELCT		Life and Physical Science Selection**	4
ELCT		Creative Arts Selection*	3
GOVT	2306	Texas Government*	3
ELCT		Social/Behavioral Science Selection	3
<b>Total Hours</b>			<b>60</b>

\* Core Requirements

\*\* EC-6 Requirements

# Welding Technology

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

## **Welding (WLDG) 480508 Associate of Applied Science Degree**

### **First Year**

<b>First Semester</b>			<b>Credit</b>
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**

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

### **Second Semester**

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

## **Welding Technology (WLD13) 480508 Certificate of Completion**

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

## **Farm and Ranch (WLFR3) 480508 Certificate of completion**

			<b>Credit</b>
WLDG	1323	Welding Safety, Tools & Equipment	3
WLDG	1313	Introduction to Blueprint Reading for Welders	3
WLDG	1425	Introduction to Oxy-Fuel Welding and Cutting	4
WLDG	1428	Introduction to Shielded Metal Arc Welding (SMAW)	4
WLDG	1457	Intermediate Shielded Metal Arc Welding (SMAW)	4
WLDG	1430	Introduction to Gas Metal Arc (GMAW) Welding	4
or			
WLDG	2488	Internship	4
<b>Total Hours</b>			<b>22</b>



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**Structural (WLS13) 480508**  
**Certificate of Completion**

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

**Industrial (WLI13) 480508**  
**Certificate of Completion**

		<b>Credit</b>
WLDG 2443	Advanced Shielded Metal Arc Welding (SMAW)	4
WLDG 2447	Advanced Gas Metal Arc (GMAW) Welding	4
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
WLDG 1435	Introduction to Pipe Welding	4
WLDG 2451	Advanced Gas Tungsten Arc (GTAW) Welding	4
WLDG 2453	Advanced Pipe Welding	4
WLDG 2435	Advanced Layout and Fabrication	4
<b>Total Hours</b>		<b>28</b>