

## Auto Collision

# Auto Collision Repair (ABCR) 470603

## Associate of Applied Science Degree

### First Year

#### First Semester

			<b>Credit</b>
ABDR	1419	Basic Metal Repair	4
ABDR	1472	Auto Body Glass, Hardware and Trim	4
ABDR	1471	Advanced Auto Body Welding	4
ABDR	1431	Basic Refinishing	4
PHED		Physical Education	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	1312	Business Writing	3
GOVT	2301/2302	American Government I/II	3

#### Second Semester

ABDR	2402	Auto Body Mechanical and Electrical Service	4
AUMT	1416	Suspension and Steering	4
ELCT		Computer Technology/Skills Selection	4
SPCH	1321	Business and Professional Communication	3
AUMT	1410	Automotive Brake Systems	4
or			
ABDR	2488	Internship-Autobody/Collision and Repair Technology/Technician	

**Total Hours** **72**

## Automotive Mechanic/Technician (AUMT) 470604

### Associate of Applied Science Degree

#### First Year

First Semester			Credit
AUMT	1405	Introduction to Automotive Technology	4
AUMT	2305	Theory of Automotive Engines	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 Heating and Air Conditioning	4
AUMT	1410	Automotive Brake Systems	4
AUMT	2413	Automotive Drive Train and Axles	4
ENGL	1312	Business Writing	3

#### Second Year

First Semester			
SPCH	1321	Business and Professional Communication	3
AUMT	1416	Automotive Suspension and Steering Systems	4
ELCT		Computer Technology/Skills Selection	3
AUMT	1471	Automotive Fuel Systems	4
GOVT	2301/2302	American Government I/II	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	4
OR			
AUMT	2488	Internship-Automobile/Automotive Mechanics Technology/Technician	
<b>Total Hours</b>			<b>72</b>

## Automotive Mechanic

### Automotive Technician (AUTT) 470604 Certificate of Completion

#### First Year

First Semester			Credit
AUMT	1405	Introduction to Automotive Technology	4
AUMT	2305	Theory of Automotive Engines	3
AUMT	1407	Automotive Electrical Systems	4
AUMT	2437	Automotive Electronics	4

#### Second Semester

AUMT	1471	Automotive Fuel Systems	4
AUMT	1445	Automotive Heating and Air Conditioning	4
AUMT	1472	Automotive Computer Systems	4
AUMT	1410	Automotive Brake Systems	4

#### Second Year

##### First Semester

AUMT	1416	Automotive Suspension and Steering Systems	4
AUMT	2413	Automotive Drive Train and Axles	4
AUMT	2425	Automotive Automatic Transmission and Transaxle	4
WLDG	2413	Intermediate Welding Using Multiple Processes	4

##### Second Semester

AUMT	2434	Automotive Engine Performance Analysis II	4
AUMT	1419	Automotive Engine Repair	4
OR			
AUMT	2488	Internship–Automobile/Automotive Mechanics Technology/Technician	

**Total Hours** 55

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

			Credit
AUMT	1405	Introduction to Automotive Technology	4
AUMT	2305	Theory of Automotive Engines	3
AUMT	1407	Automotive Electrical Systems	4
AUMT	2437	Automotive Electronics	4
AUMT	1445	Automotive Heating and Air Conditioning	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–Automobile/Automotive Mechanics Technology/Technician	
<b>Total Hours</b>			<b>39</b>

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

			<b>Credit</b>
AUMT	1405	Introduction to Automotive Technology	4
AUMT	2305	Theory of Automotive Engines	3
AUMT	1407	Automotive Electrical Systems	4
AUMT	2437	Automotive Electronics	4
AUMT	1471	Automotive Fuel Systems	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–Automobile/Automotive Mechanics Technology/Technician	31
<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 un-licensed aircraft maintenance specialist. 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). Only military members possessing applicable military operational specialty codes for US Army, US Air Force, US Navy, US Coast Guard, and US Marine Corps personnel 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	1312	Business Writing	3
PHYS	1405	Elementary Physics I	4
AERM	1314	Basic Electricity	3
AERM	1203	Shop Practices	2
AERM	2351	Aircraft Turbine Engine Overhaul	3

#### 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

AERM		Selected AERM Electives	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
AVNC	2337	Landing Gear, Hydraulic, and Fuel Systems	3
AERM	2341	Power Plant and Auxiliary Power Units	3
AERM	1254	Aircraft Composites	2

#### Second Semester

AERM	1243	Instruments and Navigation/Communications	2
AERM	1449	Hydraulic, Pneumatic, and 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

**Total Hours** **70**

## Applied Management (BUAM) 520201

(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	1303	Principles of Management	3
HRPO	1311	Human Relations	3
PHED		Physical Education	1

### Second Semester

BUSI	1307	Personal Finance	3
ENGL		English Selection	3
ELCT		BMGT/HRPO/BUSG	3
SPCH		Speech Selection	3
ELCT		ITSC 1409 or BCIS 1405	4
PHED		Physical Education	1

### Second Year

First Semester			Credit
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/HRPO/BUSG	3
PHED		Physical Education	1

### Second Semester

ELCT		Social/Behavioral Science Selection	3
BUSG	2305	Business Law/Contracts	3
or			
BUSI	2301	Business Law	
MRKG	1311	Principles of Marketing	3
ELCT		BMGT/BUSG/HRPO or Approved Selection	3
ELCT		BMGT/BUSG/ITSW/ITSC/ITSE	3
PHED		Physical Education	1
<b>Total Hours</b>			<b>65</b>

## Business Management

# Applied Management with Computer Applications (BUAMC) 520201

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

### First Year

#### First Semester

			Credit
BMGT	1303	Principles of Management	3
ELCT		Computer Science Elective	4
ITSC	1409	Integrated Software Applications I	4
ENGL	1312	Business Writing	3
MATH		MATH 1332, 1342 or higher level	3
PHED		Physical Education	1

#### Second Semester

BMGT	1301	Supervision	3
BMGT	1325	Office Management	3
ITSW	1404	Introduction to Spreadsheets	4
ITSW	1407	Introduction to Database	4
SPCH	1321	Business and Professional Communication	3
PHED		Physical Education	1

### Second Year

#### First Semester

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>65</b>

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

(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	1303	Principles of Management	3
ENGL		English Selection	3
MATH		MATH 1332, 1342 or higher level	3
HRPO	1311	Human Relations	3
ELCT		Computer Science Technology/ Skills Selection	3

**Second Semester**

ENGL		English Selection	3
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
ACNT	1325	Principles of Accounting I	3
ELCT		BMGT/HRPO/BUSG/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/HRPO/MT-	3
MTMS	2370	Advanced Leadership	3
MTPE		Physical Activity Course	1
<b>Total Hours</b>			<b>64</b>

## Business Management

# Business Management (BUBM) 520201

Associate of Applied Science Degree

### First Year

#### First Semester

			Credit
HRPO	1311	Human Relations	3
ENGL	1301	Composition I	3
ITSC	1409	Integrated Software Applications I	4
BUSI	1301	Business Principles	3
SPCH		SPCH 1315 or 1321	3
PHED		Physical Education	1

#### Second Semester

BMGT	1325	Office Management	3
BMGT	1303	Principles of Management	3
MRKG	1311	Principles of Marketing	3
ELCT		BUSI/BMGT/RELE/ITSC/IMED/MRKG/BUSG	3-4
ELCT		BMGT 2370, BMGT 2488, or RELE 2488	3-4
PHED		Physical Education	1

### Second Year

#### First Semester

MATH		MATH 1332, 1342 or higher level	3
ACCT	2301	Principles of Financial Accounting	3
ELCT		BUSI/BMGT/RELE/MRKG/BUSG	3
HRPO	2301	Human Resource Management	3
BUSG	2305	Business Law/Contracts	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		Elective	3
ELCT		BMGT 2371, BMGT 2489, or RELE 2489	3-4
<b>Total Hours</b>			<b>69-72</b>

## Business Management (BUBM) 520201 Certificate of Completion

### First Year

First Semester			Credit
BUSI	1301	Business Principles	3
BMGT	1303	Principles of Management	3
HRPO	1311	Human Relations	3
ITSC	1409	Integrated Software Applications I	4
MRKG	1311	Principles of Marketing	3
Second Semester			
HRPO	2301	Human Resource Management	3
BMGT	1301	Supervision	3
BUSG	2305	Business Law/Contracts	3
or			
BUSI	2301	Business Law	
ELCT		BUSI/BMGT/BUSG/RELE/MRKG	3
ELCT		BMGT 2370, BMGT 2488, RELE 2488	3-4
<b>Total Hours</b>			<b>31-32</b>

## Entrepreneurship (BUEN) 520201 Certificate of Completion

### First Year

First Semester			Credit
BUSG	2309	Small Business Management	3
POFT	1325	Business Math and Machine Applications	3
ITSC	1409	Integrated Software Applications	4
MRKG	1311	Principles of Marketing	3
ACCT	2301	Principles of Financial Accounting	3
Second Semester			
HRPO	2301	Human Resource Management	3
BUSG	2305	Business Law/Contracts	3
or			
BUSI	2301	Business Law	
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>31-32</b>

## Business Management

# Business Management

## Marketing and Sales Management Specialization (BUMSM) 520201

### Associate of Applied Science Degree

#### First Year

##### First Semester

			Credit
HRPO	1311	Human Relations	3
ENGL	1301	Composition I	3
BUSI	1301	Business Principles	3
ITSC	1409	Integrated Software Applications I	4
SPCH		SPCH 1315 or 1321	3
PHED		Physical Education	1

##### Second Semester

MATH		MATH 1332, 1342 or higher level	3
MRKG	1311	Principles of Marketing	3
BMGT	1325	Office Management	3
MRKG	1302	Principles of Retailing	3
ELCT		BMGT 2370, BMGT 2488, or RELE 2488	3-4
PHED		Physical Education	1

#### Second Year

##### First Semester

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

##### Second Semester

ACCT	2302	Principles of Managerial Accounting	3
BUSG	2305	Business Law/Contracts	3
or			
BUSI	2301	Business Law	
MRKG	2333	Principles of Selling	3
or			
BUSI	1311	Salesmanship	
ELCT		Elective	3
ELCT		BMGT/BUSI/BUSG/RELE	3
ELCT		BMGT 2371, BMGT 2489, or RELE 2489	3-4

##### Total Hours

**69-72**

## Business Management

### Marketing and Sales Management (BUMSM) 520201

#### Certificate of Completion

**First Year**

<b>First Semester</b>			<b>Credit</b>
HRPO	1311	Human Relations	3
BUSI	1301	Business Principles	3
ITSC	1409	Integrated Software Applications I	4
ELCT		BMGT/BUSI/BUSG/RELE/HRPO	3

**Second Semester**

MRKG	1311	Principles of Marketing	3
MRKG	2333	Principles of Selling	3
or			
BUSI	1311	Salesmanship	3
ELCT		BUSI/BMGT/BUSG/RELE/MRKG	3-4
ELCT		BMGT 2370, BMGT 2488, or RELE 2488	3-4
<b>Total Hours</b>			<b>25-26</b>

## Computer Science

# Business Programmer Analyst (CSBP) 111002

## Associate of Applied Science Degree

### First Year

#### First Semester

			Credit
ITNW	1437	Introduction to the Internet	4
ITSE	1431	Introduction to Visual Basic Programming	4
ITSC	1409	Integrated Software Applications I	4
ENGL	1301	Composition I	3
MATH		MATH 1332, 1342 or higher level	3

#### Second Semester

ITSE	1418	Introduction to COBOL Programming	4
COSC	2425	Computer Organization and Machine Language	4
ITSC	1405	Introduction to PC Operating Systems	4
ITSC	1411	AS/400 Operating System I	4
PHED		Physical Education	1

### Second Year

#### First Semester

ITSY	2400	Operating Systems Security	4
ITSE	1422	Introduction to C Programming	4
ITSE	1414	Introduction to RPG Programming	4
IMED	2409	Internet Commerce	4
ELCT		Social/Behavioral Science Selection	3

#### Second Semester

ITSE	2451	Advanced COBOL Programming	4
ITSE	2431	Advanced C++ Programming	4
ITSE	1450	System Analysis and Design	4
SPCH		SPCH 1315 or SPCH 1321	3
ELCT		Humanities/Fine Arts Selection	3

**Total Hours** 72

## Information Technology (CSIT) 111002

### Associate of Applied Science Degree

#### First Year

##### First Semester

			<b>Credit</b>
ITSE*	1431	Introduction to Visual Basic	4
ITSW	1401	Introduction to Word Processing	4
ITSW	1404	Introduction to Spreadsheets	4
ITSC	1409	Integrated Software Applications I	4
PHED		Physical Education	1

##### Second Semester

IMED	1416	Web Page Design I	4
ITSW	1407	Introduction to Database	4
ITSC	1405	Introduction to PC Operating Systems	4
ITNW	1437	Introduction to the Internet	4

#### Second Year

##### First Semester

ITSC	2439	Personal Computer Help Desk	4
ITNW	1425	Fundamentals of Networking Technologies	4
IMED	2409	Internet Commerce	4
ENGL	1301	Composition I	3
ELCT		Humanities/Fine Arts Selection	3

##### Second Semester

ITSE	1450	System Analysis and Design	4
ITSY	2400	Operating Systems Security	4
MATH		MATH 1332, 1342 or higher level	3
ELCT		Social/Behavioral Science Selection	3
SPCH		SPCH 1315 or SPCH 1321	3
<b>Total Hours</b>			<b>68</b>

\* COSC 1300 may substitute.

## Computer Science

# Network Systems Administrator (CSNS) 111002

## Associate of Applied Science Degree

### First Year

#### First Semester

			Credit
ITSC	1409	Integrated Software Applications I	4
ITSE	1431	Introduction to Visual Basic	4
ENGL	1301	Composition I	3
MATH		MATH 1332, 1342 or higher level	3
PHED		Physical Education	1

#### Second Semester

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

### Second Year

#### First Semester

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

#### Second Semester

ITSE	1450	System Analysis and Design	4
ITNW	2435	Troubleshooting and Support	4
or			
ITSE	2413	Web Authoring	
IMED	2409	Internet Commerce	4
SPCH		SPCH 1315 or SPCH 1321	3

**Total Hours** **64**

## Network Specialist (CSNS) 111002 Certificate of Completion

<b>First Semester</b>			<b>Credit</b>
ITSC	1409	Integrated Software Applications I	4
ITSE	1431	Introduction to Visual Basic	4
ITNW	1437	Introduction to the Internet	4
ELCT		ITSC/ITSE/ITSW/ITNW Technical Elective	4
<b>Second Semester</b>			
COSC	2425	Computer Organization and Machine Language	4
IMED	1416	Web Page Design I	4
ITNW	1425	Fundamentals of Networking Technologies	4
ITSY	2400	Operating Systems Security	4
<b>Total Hours</b>			<b>32</b>

## Information Center Specialist (CSIC) 110301 Certificate of Completion

<b>First Semester</b>			<b>Credit</b>
ITSE*	1431	Introduction to Visual Basic	4
ITSW	1401	Introduction to Word Processing	4
ITSW	1404	Introduction to Spreadsheets	4
ITSC	1409	Integrated Software Applications I	4
<b>Second Semester</b>			
ITSW	1407	Introduction to Database	4
IMED	1416	Web Page Design I	4
ITSC	1405	Introduction to PC Operating Systems	4
ITSC	2439	Personal Computer Help Desk	4
<b>Total Hours</b>			<b>32</b>

\* COSC 1300 may substitute.

## Computer Science

# Microsoft System Administrator (CSMSO) 111002 Certificate of Completion

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

### First Year

#### First Semester

		Credit
ETMC 1201	Managing a Windows Server 2003 Environment	2
ETMC 1202	Implementing and Supporting Microsoft Windows XP Professional	2

#### Second Semester

ETMC 1103	Implementing a MS Windows Server 2003 Network Infrastructure: Network Host	1
ETMC 1204	Implementing a MS Windows Server 2003 Network Infrastructure: Network Services	2

### Second Year

#### First Semester

ETMC 1205	Planning and Maintaining a MS Server 2003 Network Infrastructure	2
ETMC 1206	Planning, Implementing, and Maintaining a MS Windows Server 2003 Active Directory Infrastructure	2

#### Second Semester

ETMC 1207	Designing a MS Windows Server 2003 Active Directory and Network Infrastructure	2
ETMC 1209	Designing Computer and Network Security	2

**Total Hours** **15**

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

### Associate of Applied Science Degree

#### First Year

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

#### Second Semester

ENGR	1305	Engineering Graphics II	3
DFTG	2402	Machine Drafting	4
ARCE	1452	Structural Drafting	4
ENGL	1312	Business Writing	3
ELCT	**	General Academic Elective	3

#### Second Year

First Semester			
DFTG	1417	Architectural Drafting-Residential	4
DFTG	1458	Electrical/Electronics Drafting	4
DFTG	2440	Solid Modeling/Design	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>64-65</b>

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

\*\* Natural Science/Mathematics, Humanities/Fine Arts or Social Behavioral Science Selection.

Approved Electives: ARTS 1316, ITSC 1409 or other Elective approved by the Department Chair

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

### Certificate of Completion

First Semester			Credit
ENGR	1304	Engineering Graphics I	3
ENGR	1305	Engineering Graphics II	3
DFTG	1409	Basic Computer-Aided Drafting	4
DFTG	2402	Machine Drafting	4
ARCE	1452	Structural Drafting	4
DFTG	2412	Technical Illustration and Presentation	4
MATH	1332	Contemporary Mathematics	3
<b>Total Hours</b>			<b>25</b>

## Early Childhood Professions

# Early Childhood Professions (CDEC) 190709

## Associate of Applied Science Degree

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

### First Year

#### First Semester

			<b>Credit</b>
CDEC**	1311	Educating Young Children	3
CDEC	1313	Curriculum Resources for Early Childhood Programs	3
CDEC	1319	Child Guidance	3
ENGL		ENGL 1301 or 1312	3
CDEC*	1359	Children with Special Needs	3
PHED		Physical Education	1

#### Second Semester

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

### Second Year

#### First Semester

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

#### Second Semester

CDEC	2307	Math and Science for Early Childhood	3
CDEC	2384	Cooperative Education in Child Development	3
CDEC	2341	The School Age Child	3
CDEC	1195	Special Topics in Child Care	1
ELCT		Humanities/Fine Arts Selection	3
ELCT		Social/Behavioral Science Selection	3

#### Total Hours

**66-67**

\* CDEC 1371 and 1340 may substitute

\*\* TECA 1311 may be substituted for CDEC 1311

TECA 1318 may be substituted CDEC 1318

TECA 1303 may be substituted for CDEC 1303

TECA 1354 may be substituted for CDEC 1354

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

## Early Childhood Professions (CDEC) 190709 Certificate of Completion

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

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

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

## Administrator's Credentials (CDAC) 190708 Certificate of Completion

<b>First Semester</b>			<b>Credit</b>
CDEC *	1311	Educating Young Children	3
or			
CDEC	2341	The School Age Child	
CDEC	1313	Curriculum Resources for Early Childhood Programs	3
or			
CDEC	2307	Math and Science for Early Childhood	
CDEC	1319	Child Guidance	3
CDEC	2326	Administration of Programs for Children I	3
ENGL		ENGL 1301 or 1312	3
<b>Second Semester</b>			
CDEC*	1354	Child Growth and Development	3
CDEC *	1318	Wellness of the Young Child	3
CDEC	2328	Administration of Programs for Children II	3
CDEC	2384	Cooperative Education in Child Development	3
ELCT		Computer Technology/Skills Selection	3
<b>Total Hours</b>			<b>30</b>

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

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

## Early Childhood Professions

### Special Child Option (CDSC) 190709 Certificate of Completion

First Semester			Credit
CDEC *	1311	Educating Young Children	3
CDEC	1359	Children with Special Needs	3
CDEC*	1303	Families, School and Community	3
CDEC	1371	Physical Development and Disorder in Children	3
ENGL		ENGL 1301 or 1312	3
Second Semester			
CDEC	1313	Curriculum Resources in Early Childhood Programs	3
CDEC	1340	Instructional Techniques for Children with Special Needs	3
CDEC *	1354	Child Growth and Development	3
CDEC *	1318	Wellness of the Young Child	3
<b>Total Hours</b>			<b>27</b>

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

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

## Communications Electronics Technology (ELCU) 150305

Associate of Applied Science Degree

*(Offered at Europe Campus only)*

### First Year

#### First Semester

			<b>Credit</b>
CETT	1421	Electronics Fabrication	4
CETT	1425	Digital Fundamentals	4
CETT	1403	DC Circuits	4
CPMT	1403	Introduction to Computer Technology	4

#### Second Semester

MATH		MATH 1332, 1342 or higher level	3
CETT	1405	AC Circuits	4
CETT	1429	Solid State Devices	4
ENGL	1312	Business Writing	3
ELCT		Social/Behavioral Science Selection	3

### Second Year

#### First Semester

CETT	2445	Color Television Repair	4
EECT	1474	Basic Communications Circuits	4
CETT	1449	Digital Systems	4
CETT	1441	Solid State Circuits	4
ELCT		Approved Technical Elective	4

#### Second Semester

EECT	2439	Communications Circuits	4
ELMT	2437	Electronic Troubleshooting: Service and Repair	4
ELCT		Humanities/Fine Arts Selection	3
EECT	1476	Digital Communications	4
ELCT		Academic Elective from Humanities/Fine Arts, Social/Behavioral Science, Natural Science/Mathematics	3

<b>Total Hours</b>			<b>71</b>
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## Electronics

### Computer Electronics (ELCP) 151202 Associate of Applied Science Degree

#### First Year

##### First Semester

			<b>Credit</b>
CETT	1421	Electronics Fabrication	4
CETT	1425	Digital Fundamentals	4
CETT	1403	DC Circuits	4
CPMT	1403	Introduction to Computer Technology	4

##### Second Semester

MATH		MATH 1332, 1342 or higher level	3
CETT	1405	AC Circuits	4
CETT	1429	Solid State Devices	4
ENGL	1312	Business Writing	3
ELCT		Social/Behavioral Science Selection	3

#### Second Year

##### First Semester

CPMT	1445	Computer Systems Maintenance	4
CPMT	1449	Computer Networking Technology	4
CETT	1449	Digital Systems	4
CETT	1441	Solid State Circuits	4

##### Second Semester

CPMT	2445	Computer System Troubleshooting	4
ELMT	2437	Electronic Troubleshooting, Service and Repair	4
ELCT		Humanities/Fine Arts Selection	3
ELCT		Approved Technical Elective	4
ELCT		Approved Elective	3

##### Total Hours

**67**

### Computer Electronics Technology (ELCP) 151202 Certificate of Completion

#### First Semester

			<b>Credit</b>
CPMT	1403	Introduction to Computer Technology	4
CETT	1425	Digital Fundamentals	4
CETT	1403	DC Circuits	4
ENGL	1312	Business Writing	3

#### Second Semester

CETT	1405	AC Circuits	4
CETT	1429	Solid State Devices	4
CPMT	1445	Computer Systems Maintenance	4
ELCT		Approved Elective	3

##### Total Hours

**30**

## Emergency Medical Technology (EMTE) 510904

### Associate of Applied Science Degree

#### First Year

First Semester			Credit
EMSP	1401	Emergency Medical Technician -Basic	4
EMSP	1160	Clinical-EMT	1
BIOL	2401	Anatomy and Physiology I	4
PSYC	2314	Life Span Growth and Development	3
PHED		Physical Education	1

#### Second Semester

EMSP	1441	EMT-Intermediate	4
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			Credit
EMSP	2434	Medical Emergencies	4
SPCH		SPCH 1315 or SPCH 1318 or SPCH 1321	3
PHED		Physical Education	1
ELCT		Humanities/Fine Arts Selection	3
EMSP	1167	Practicum-EMT	1

#### Second Semester

EMSP	2330	Special Populations	3
BIOL	2421	Microbiology	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
<b>Total Hours</b>			<b>67</b>

## Emergency Medical Technology

### **EMT - Paramedic (EMPC) 510904** **Certificate of Completion**

Students are required to complete the NET aptitude test with acceptable scores.

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

Upon successful completion of EMSP 1401, EMSP 1441, EMSP 1355, EMSP 1160, and EMSP 1166 students are eligible to sit for the EMT-Intermediate exam.

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

<b>First Year</b>			<b>Credit</b>
EMSP	1401	Emergency Medical Technician -Basic	4
EMSP	1160	Clinical-EMT	1
EMSP	1441	Emergency Medical Technician-Intermediate	4
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>31</b>

## General Studies (GSTU) 240102

### Associate of General Studies Degree

This is a suggested curriculum.

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

#### First Year

First Semester			Credit
ENGL*	1301	Composition I	3
or			
ENGL*	1312	Business Writing	
HIST	1301	United States History I	3
PHED		Physical Education	1
ELCT		Electives	9

#### Second Semester

SPCH*		Speech Selection	3
or			
ELCT**		Elective	
HIST	1302	United States History II	3
MATH		MATH 1332, 1342 or higher level	3
ELCT		Electives	4
ELCT		Computer Technology/Skills Selection	3

#### Second Year

First Semester			
GOVT	2301	American Government I	3
ELCT**		Electives	12
PHED		Physical Education	1
Second Semester			
GOVT	2302	American Government II	3
ELCT		Humanities/Fine Arts Selection	3
ELCT**		Electives	10
<b>Total Hours</b>			<b>64</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.

\* If ENGL 1301 is taken, student must complete SPCH requirement. If ENGL 1312 is taken, student may substitute an elective.

\*\* Students may select 34-37 Semester credit hours from courses that fulfill the student's educational goals.

## Graphics and Printing Technology

### Graphics and Printing Technology (GPGT) 100305 Certificate of Completion

			<b>Credit</b>
GRPH	1405	Introduction to Graphic Arts and Printing	4
GRPH	1408	Darkroom Techniques for Plate Development	4
GRPH	2336	Prepress Techniques	3
ARTC	1313	Digital Publishing I	3
ARTC	2313	Digital Publishing II	3
ARTC	2348	Digital Publishing III	3
GRPH	1309	Press Operations I	3
GRPH	2338	Press Operations II	3
GRPH	1374	Press Operations III	3
GRPH	1474	Preventive Maintenance	4
GRPH	1419	Bindery and Finishing Operations	4
GRPH	1472	Graphics and Printing Applications	4
or			
GRPH	2488	Internship-Graphics and Printing Equipment Operator, General Production	4
<b>Total Hours</b>			<b>41</b>

# 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
PHED		Physical Education	1

## Second Semester

HART	1403	A/C Control Principles	4
HART	1441	Residential Air Conditioning	4
ELCT		Computer Technology/Skills Selection	4
ENGL	1312	Business Writing	3
GOVT	2301/2302	American Government I/II	3

## Second Year

First Semester			
HART	2449	Heat Pumps	4
HART	2431	Advanced Electricity	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	2471	Advanced Heat Pumps	4
SPCH	1321	Business and Professional Communication	3
HART	2445	Residential Air Conditioning System Design	4
or			
HART	2488	Internship-Heating, A/C Ventilation and Refrigeration Maintenance Technology/Technician (HAC, HACR)	

**Total Hours** **68**

## Heating and Air Conditioning

### 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	A/C Control Principles	4
HART	1441	Residential Air Conditioning	4
HART	2431	Advanced Electricity	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	2471	Advanced Heat Pumps	4
HART	2445	Residential Air Conditioning System Design	4

or

HART	2488	Internship-Heating, A/C Ventilation and Refrigeration Maintenance Technology/Technician (HAC, HACR)	4
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**Total Hours** 48

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

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

##### Second Semester

HART	2441	Commercial Air Conditioning	4
HART	2431	Advanced Electricity	4
HART	2442	Commercial Refrigeration	4
HART	2436	Air Conditioning Troubleshooting	4
HART	2445	Residential Air Conditioning System Design	4

or

HART	2488	Internship-Heating, A/C Ventilation and Refrigeration Maintenance Technology/Technician (HAC, HACR)	4
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**Total Hours** 40

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

<b>First Semester</b>			<b>Credit</b>
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	A/C Control Principles	4
 <b>Second Semester</b>			
HART	2449	Heat Pumps	4
HART	2471	Advanced Heat Pumps	4
HART	2431	Advanced Electricity	4
HART	2436	Air Conditioning Troubleshooting	4
HART	2445	Residential Air Conditioning System Design	4
or			
HART	2488	Internship-Heating, A/C Ventilation and Refrigeration Maintenance Technology/Technician (HAC, HACR)	
<b>Total Hours</b>			<b>40</b>

## Hospitality Management

# Restaurant and Culinary Management (HMRCM) 520901

## Associate of Applied Science Degree

<b>First Semester</b>			<b>Credit</b>
CHEF	1305	Sanitation and Safety	3
HAMG	1308	Introduction 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
PHED		Physical Education	1
<b>Second Semester</b>			
GOVT	2301	American Government I	3
HAMG	1319	Computers in Hospitality	3
SPCH		SPCH 1315 or SPCH 1321	3
ELCT		Selected Technical Elective	3
ELCT		Selected Technical Elective	3
HAMG	2301	Principles of Food and Beverage Operations	3
<b>Second Year</b>			
<b>First Semester</b>			
HAMG	2332	Hospitality Financial Management	3
IFWA	1318	Nutrition for the Food Service Professional	3
ENGL	1301	Composition I	3
PSTR	1301	Fundamentals of Baking	3
ELCT		Technical Elective	3
ELCT		Selected Technical Elective	3
<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-Hospitality Administration and Management	3
<b>Total Hours</b>			<b>72</b>

## Hotel Management Specialization (HMHM) 520901

### Associate of Applied Science Degree

#### First Year

First Semester			Credit
CHEF	1305	Sanitation and Safety	3
HAMG	1308	Introduction to the Hospitality Industry	3
CHEF*	1301	Basic Food Preparation	3
HAMG	1319	Computers in Hospitality	3
ELCT		Humanities/Fine Arts Selection	3
ELCT		Academic Elective	3

#### Second Semester

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

#### Second Year

##### First Semester

RSTO	1325	Purchasing for Hospitality Operations	3
RSTO	1204	Dining Room Service	2
HAMG	1342	Guest Room Maintenance	3
MATH		MATH 1332 or MATH 1342	3
HAMG	1340	Hospitality Legal Issues	3
ELCT		Technical Elective	3
PHED		Physical Education	1

##### Second Semester

HAMG	2337	Hospitality Facilities Management	3
ENGL	1301	Composition I	3
ELCT		Technical Elective	3
HAMG	2307	Hospitality Marketing and Sales	3
ELCT		Technical Elective	3
HAMG	2388	Internship-Hospitality Administration and Management	3
<b>Total Hours</b>			<b>72</b>

\* HAMG 1324 may substitute.

## Hospitality Management

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

<b>First Semester</b>			<b>Credit</b>
CHEF	1305	Sanitation and Safety	3
RSTO	1313	Hospitality Supervision	3
HAMG	1308	Introduction to the Hospitality Industry	3
CHEF	1301	Basic Food Preparation	3
HAMG	1319	Computers in Hospitality	3
<b>Second Semester</b>			
HAMG	1340	Hospitality Legal Issues	3
HAMG	2301	Principles of Food and Beverage Operations	3
CHEF	1410	Garde Manger	4
<b>Third Semester</b>			
IFWA	1318	Nutrition for the Food Service Professional	3
HAMG	2388	Internship -Hospitality Administration and Management	3
RSTO	1325	Purchasing for Hospitality Operations	3
PSTR	1301	Fundamentals of Baking	3
ELCT		Selected Technical Elective	3
<b>Total Hours</b>			<b>40</b>

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

<b>First Semester</b>			<b>Credit</b>
CHEF	1305	Sanitation and Safety	3
HAMG	1319	Computers in Hospitality	3
CHEF	1301	Basic Food Preparation	3
HAMG	2301	Principles of Food and Beverage Operations	3
RSTO	1221	Menu Management	2
CHEF	1410	Garde Manger	4
PSTR	1301	Fundamentals of Baking	3
ELCT		Selected Technical Elective	3
<b>Total Hours</b>			<b>24</b>

### **Rooms Division (HMRD) 520904** **Certificate of Completion**

<b>First Semester</b>			<b>Credit</b>
HAMG	1313	Front Office Procedures	3
HAMG	1308	Introduction 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
HAMG	1319	Computers in Hospitality	3
HAMG	2332	Hospitality Financial Management	3
HAMG	2388	Internship-Hospitality Administration and Management	3
<b>Total Hours</b>			<b>24</b>

## Property Management Advanced (HMPM) 520904 Certificate of Completion

<b>First Semester</b>			<b>Credit</b>
HAMG	1313	Front Office Procedures	3
HAMG	1340	Hospitality Legal Issues	3
HAMG	1308	Introduction 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	2370	Hospitality Financial Management II	3
HAMG	1342	Guest Room Maintenance	3
HAMG	2388	Internship-Hospitality Administration and Management	3
<b>Total Hours</b>			<b>39</b>

## Food and Beverage Management (HMFOL) 520901 Certificate of Completion

(Offered at locations outside Central Campus under contract obligations)

			<b>Credit</b>
CHEF	1305	Sanitation and Safety	3
HAMG	1319	Computers in Hospitality	3
HAMG	1324	Hospitality Human Resource Management	3
HAMG	2301	Principles of Food & Beverage Operations	3
RSTO	1204	Dining Room Service	2
RSTO	1313	Hospitality Supervision	3
HAMG	1308	Introduction to the Hospitality Industry	3
RSTO	2301	Principles of Food and Beverage Controls	3
<b>Hospitality</b>			
<b>Select three of the following courses:</b>			
TRVM	1345	Travel and Tourism Sales and Marketing Techniques	3
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>

## Hospitality Management

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

#### First Year

##### First Semester

			Credit
CHEF	1305	Sanitation and Safety	3
HAMG	1308	Introduction to the Hospitality Industry	3
HAMG	1319	Computers in Hospitality	3
ELCT		Humanities/Fine Arts Selection	3
HAMG	2307	Hospitality Marketing and Sales	3
ELCT		Technical Elective	3

##### Second Semester

GOVT	2301	American Government I	3
HAMG	1324	Hospitality Human Resource Management	3
SPCH		SPCH 1315 or SPCH 1321	3
RSTO	1204	Dining Room Service	2
ELCT		Technical Elective	3
HAMG	2301	Principles of Food and Beverage Operations	3
PHED		Physical Education	1

#### Second Year

##### First Semester

HAMG	2332	Hospitality Financial Management	3
TRVM	2301	Convention Management and Service	3
ENGL	1301	Composition I	3
RSTO	2301	Principles of Food and Beverage Controls	3
RSTO	1301	Beverage Management	3
HAMG	2337	Hospitality Facilities Management	3

##### Second Semester

RSTO	1325	Purchasing for Hospitality Operations	3
MATH		MATH 1332 or MATH 1342	3
HAMG	1340	Hospitality Legal Issues	3
RSTO	1313	Hospitality Supervision	3
ELCT		Academic Elective	3
HAMG	2388	Internship-Hospitality Administration and Management	3
<b>Total Hours</b>			<b>72</b>

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

The Paralegal/Legal Assistant Program offered at the Central Campus located at 6200 W. Central Texas Expressway, Killeen, Texas is an officially approved program by the American Bar Association.

A paralegal (also known as legal assistant) is a professional who, by training and experience, is qualified to perform legal functions under the direction and supervision of an attorney, court, or military command.

### First Year

<b>First Semester</b>			<b>Credit</b>
LGLA	1303	Legal Research	3
LGLA	1307	Introduction to Law and the Legal Profession	3
ENGL	1301	Composition I	3
ELCT		Humanities/Fine Arts Selection*	3
POFT	1329	Beginning Keyboarding**	3
ITSW	1401	Introduction to Word Processing	4

### Second Semester

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

### Second Year

<b>First Semester</b>			
LGLA	1353	Wills, Trusts, and Probate Administration	3
PHIL	2303	Introduction to Logic	3
LGLA	2303	Torts and Personal Injury Law	3
ELCT		ACCT 2301 or ACNT 1325 or BUSG 1370	3
GOVT	2301	American Government I	3
PHED		Physical Education	1

### Second Semester

LGLA	2313	Criminal Law and Procedures	3
GOVT	2302	American Government II	3
LGLA	2331	Advanced Legal Research and Writing	3
LGLA		Legal Elective	3
LGLA		Legal Elective	3
LGLA	2433	Advanced Legal Document Preparation	
OR			
LGLA	2488	Internship-Paralegal/Legal Assistant	
OR			
LGLA	2480	Cooperative Education-Paralegal/Legal Assistant	4
<b>Total Hours</b>			<b>72</b>

\* Humanities/Fine Arts shall include only ARTS 1303, 1304, DRAM 1310, HUMA 1315, SPCH 2341, MUSI 1306.

\*\* Unless demonstrated typing proficiency of 45 words per minute.

## Maintenance Technology

# Maintenance Technology (MTNT) 460401

## Associate of Applied Science Degree

### First Year

#### First Semester

			<b>Credit</b>
CRPT	1429	Introduction to Carpentry	4
HART	1407	Refrigeration Principles	4
CRPT	1423	Floor Systems	4
MATH	1332	Contemporary Mathematics	3
PHED		Physical Education	1

#### Second Semester

ELPT	1411	Basic Electrical Theory	4
ELPT	1429	Residential Wiring	4
ENGL	1312	Business Writing	3
CRPT	1411	Conventional Roof Systems	4
ELEC		Humanities/Fine Arts Selection	3

### Second Year

#### First Semester

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

#### Second Semester

CBFM	1334	Interior and Exterior Painting and Refinishing	3
HART	1401	Basic Electricity for HVAC	4
MBST	1507	Masonry I	5
SPCH	1321	Business and Professional Communication	3
PFPB	2445	Residential Construction Plumbing II	4
or			
CBFM	2487	Internship-Building/Property Maintenance and Manager	4
<b>Total Hours</b>			<b>72</b>

## At Risk Youth Specialization (MHAR) 511503

### Associate of Applied Science Degree

#### First Year

First Semester			Credit
DAAC	1319	Introduction to Alcohol and Other Drug Addictions	3
CMSW	1309	Problems of Children and Adolescents	3
PSYT	1329	Interviewing and Communication Skills	3
DAAC	1304	Pharmacology of Addiction	3
CMSW	1319	Adolescent Development	3
CHLT	1309	Community Ethics	3

#### Second Semester

PSYT	2321	Crisis Intervention	3
CMSW	1313	Assessment and Service Delivery	3
DAAC	2354	Dynamics of Group Counseling	3
PSYC	2301	General Psychology	3
DAAC	1311	Counseling Theories	3
PHED		Physical Education	1

#### Third Semester

ITSC	1409	Integrated Software Applications I	4
ENGL	1301	Composition I	3
ELCT		Department Approved Elective	3

#### Fourth Semester

PSYT	1345	Principles of Behavior Management and Modification	3
ELCT		Mental Health Elective	3
SPCH		Speech 1315 or 1321	3
PSYT	2331	Abnormal Psychology	3
ENGL	1302	Composition II	3

#### Fifth Semester

CMSW	1167	Practicum -Clinical and Medical Social Work	1
MATH		MATH 1332 or 1342	3
ELCT		Mental Health Elective	3
DAAC	2307	Addicted Family Intervention	3
ELCT		Humanities/Fine Arts Selection	3
<b>Total Hours</b>			<b>72</b>

## Mental Health Services

### At Risk Youth Specialization Advanced Certificate (MHAR) 511503 Certificate of Completion

<b>First Semester</b>			<b>Credit</b>
DAAC	1319	Introduction to Alcohol and Other Drug Addictions	3
CMSW	1309	Problems of Children and Adolescents	3
PSYT	1329	Interviewing and Communication Skills	3
DAAC	1304	Pharmacology of Addiction	3
CMSW	1319	Adolescent Development	3
<b>Second Semester</b>			
PSYT	2321	Crisis Intervention	3
CHLT	1309	Community Ethics	3
CMSW	1313	Assessment and Service Delivery	3
DAAC	2354	Dynamics of Group Counseling	3
<b>Third Semester</b>			
PSYT	1345	Principles of Behavior Management and Modification	3
PSYT	2331	Abnormal Psychology	3
CMSW	1167	Practicum -Clinical and Medical Social Work	1
DAAC	1311	Counseling Theories	3
DAAC	2307	Addicted Family Intervention	3
<b>Total Hours</b>			<b>40</b>

## Chemical Dependency Specialization (MHCS) 511503

### Associate of Applied Science Degree

#### First Year

First Semester			Credit
DAAC	1319	Introduction to Alcohol and Other Drug Addictions	3
PSYT	1329	Interviewing and Communication Skills	3
DAAC	1304	Pharmacology of Addiction	3
DAAC	2307	Addicted Family Intervention	3
CHLT	1309	Community Ethics	3
CMSW	1309	Problems of Children and Adolescents	3

#### Second Semester

PSYT	2321	Crisis Intervention	3
DAAC	1309	Assessment Skills of Alcohol and Other Drug Addictions	3
ELCT		Department Elective	3
DAAC	2354	Dynamics of Group Counseling	3
DAAC	1311	Counseling Theories	3
PHED		Physical Education	1

#### Second Year

##### First Semester

ITSC	1409	Integrated Software Applications I	4
ENGL	1301	Composition I	3
PSYC	2301	General Psychology	3

##### Second Semester

DAAC	2341	Counseling Alcohol and Other Drug Addictions	3
DAAC	1167	Practicum -Alcohol/Drug Abuse Counseling	1
SPCH		Speech 1315 or 1321	3
ELCT		Mental Health Elective	3
PSYT	2331	Abnormal Psychology	3
ENGL	1302	Composition II	3

##### Third Semester

DAAC	2367	Practicum -Alcohol/Drug Abuse Counseling	3
MATH		MATH 1332 or 1342	3
ELCT		Mental Health Elective	3
ELCT		Humanities/Fine Arts Selection	3
<b>Total Hours</b>			<b>72</b>

## Mental Health Services

# Chemical Dependency Specialization - Advanced Certificate (MHCA) 511503 Certificate of Completion

<b>First Semester</b>		<b>Credit</b>
DAAC 1319	Introduction to Alcohol and Other Drug Addictions	3
PSYT 1329	Interviewing and Communication Skills	3
DAAC 1304	Pharmacology of Addiction	3
CMSW 1309	Problems of Children and Adolescents	3
<b>Second Semester</b>		
PSYT 2321	Crisis Intervention	3
DAAC 1309	Assessment Skill of Alcohol and Other Drug Addictions	3
DAAC 1167	Practicum -Alcohol/Drug Abuse Counseling	1
DAAC 2354	Dynamics of Group Counseling	3
DAAC 2307	Addicted Family Intervention	3
<b>Third Semester</b>		
DAAC 2341	Counseling Alcohol and Other Drug Addictions	3
DAAC 1311	Counseling Theories	3
PSYT 2331	Abnormal Psychology	3
CHLT 1309	Community Ethics	3
<b>Fourth Semester</b>		
DAAC 2367	Practicum-Alcohol/Drug Abuse Counseling	3
<b>Total Hours</b>		<b>40</b>

## Social Work Specialization (MHSW) 511503

### Associate of Applied Science

#### First Year

First Semester			Credits
ENGL	1301	Composition I	3
HIST	1301	United States History I	3
ITSC	1409	Integrated Software Applications I	4
SOCI	1301	Introduction to Sociology	3
PSYT	1329	Interviewing and Communications Skills	3

#### Second Semester

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

#### Second Year

##### First Semester (Summer)

PHED		Physical Education	1
GOVT	2301	American Government I	3
SPCH		SPCH 1315 or 1321	3
ELCT		Visual and Performing Arts	3

##### Second Semester

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

##### Third Semester

SOCW	2362	Social Welfare as a Social Institution	3
CMSW	1167	Practicum -Clinical and Medical Social Work	1
DAAC	2354	Dynamics of Group Counseling	3
PSYT	1309	Health Psychology	3
MATH		MATH 1332 or 1342	3
ELCT		Humanities: Literature course in English	3
<b>Total Hours</b>			<b>72</b>

## Office Technology

# Executive Assistant (OTEA) 520401

## Associate of Applied Science Degree

### First Year

#### First Semester

			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1301	Business English	3
POFT	1309	Administrative Office Procedures I	3
ITSC	1409	Integrated Software Applications I	4
PHED		Physical Education	1

#### Second Semester

POFI	2301	Word Processing	3
POFT	1325	Business Math and Machine Applications	3
POFT	1319	Records and Information Management I	3
MATH	1414	College Algebra	4
ENGL		English Selection	3
POFT	2312	Business Correspondence and Communication	3

### Second Year

#### First Semester

ACNT*	1325	Principles of Accounting I	3
POFI	2331	Desktop Publishing	3
ELCT		Humanities/Fine Arts Selection	3
SPCH		SPCH 1315 or 1321	3
PHED		Physical Education	1
POFT	2386	Internship - Administrative Assistant and Secretarial Science, General	3
OR			
POFT	2388	Internship - General Office Occupations and Clerical Services	3

#### Second Semester

POFI	1349	Spreadsheets	3
POFT	1349	Administrative Office Procedures II	3
POFT	2333	Advanced Keyboarding	3
OR			
POFI	2340	Advanced Word Processing	3
ELCT		Social/Behavioral Science Selection	3
POFT	2387	Internship - Administrative Assistant and Secretarial Science, General	3
OR			
POFT	2389	Internship - General Office Occupations and Clerical Services	3

**Total Hours** **67**

\* ACNT 1325 or ACCT 2301

## Administrative Support (OTAS) 520401 Certificate of Completion

### First Year

First Semester			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1301	Business English	3
POFT	1309	Administrative Office Procedures I	3
ITSC	1409	Integrated Software Applications I	4

### Second Semester

POFI	2301	Word Processing	3
POFT	1325	Business Math and Machine Applications	3
POFT	1319	Records and Information Management I	3
MATH	1414	College Algebra	4
ENGL		English Selection	3
POFT	2312	Business Correspondence and Communication	3

### Third Semester

ACNT*	1325	Principles of Accounting I	3
POFI	2331	Desktop Publishing for the Office	3
POFI	1349	Spreadsheets	3
SPCH		SPCH 1315 or 1321	3
POFT	2386	Internship - Administrative Assistant and Secretarial Science, General	3
OR			
POFT	2388	Internship - General Office Occupations and Clerical Services	3

**Total Hours** **50**

\* ACNT 1325 or ACCT 2301

## Office Assistant (OTOA) 520401 Certificate of Completion

### First Year

First Semester			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1301	Business English	3
POFT	1309	Administrative Office Procedures I	3
ITSC	1409	Integrated Software Applications I	4

### Second Semester

POFI	2301	Word Processing	3
POFT	1325	Business Math and Machine Applications	3
POFT	1319	Records and Information Management I	3
POFI	1349	Spreadsheets	3
ENGL		English Selection	3
POFT	2386	Internship - Administrative Assistant and Secretarial Science, General	3
OR			
POFT	2388	Internship - General Office Occupations and Clerical Services	3
<b>Total Hours</b>			<b>34</b>

## Office Technology

### Software Applications Specialist (OTSA) 520407 Certificate of Completion

#### First Year

First Semester			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
ITSC	1409	Integrated Software Applications I	4
POFI	2301	Word Processing	3
POFI	1349	Spreadsheets	3
<b>Total Hours</b>			<b>16</b>

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

#### First Year

First Semester			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1301	Business English	3
BMGT	1303	Principles of Management	3
POFT	1309	Administrative Office Procedures I	3
PHED		Physical Education	1

#### Second Semester

POFI	2301	Word Processing	3
POFT	1319	Records and Information Management I	3
POFT	2312	Business Correspondence and Communication	3
ITSC	1409	Integrated Software Applications I	4
BMGT	1325	Office Management	3
ENGL	1301	Composition I	3

#### Second Year

##### First Semester

ACNT*	1325	Principles of Accounting I	3
POFT	1325	Business Math and Machine Applications	3
POFI	1349	Spreadsheets	3
MATH	1414	College Algebra	4
SPCH		SPCH 1315 or 1321	3
PHED		Physical Education	1

##### Second Semester

ACNT*	1326	Principles of Accounting II	3
POFT	1349	Administrative Office Procedures II	3
HRPO	2301	Human Resources Management	3
ELCT		Social/Behavioral Science Selection	3
ELCT		Humanities/Fine Arts Selection	3
ELCT		POFI/POFT Internship Selection	3
<b>Total Hours</b>			<b>70</b>

\*ACNT 1325, 1326 or ACCT 2301, 2302.

## Office Management (OTOM) 520401 Certificate of Completion

### First Year

First Semester			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1301	Business English	3
BMGT	1303	Principles of Management	3
POFT	1309	Administrative Office Procedures	3

### Second Semester

POFI	2301	Word Processing	3
POFT	1319	Records and Information Management I	3
POFT	2312	Business Correspondence and Communication	3
ITSC	1409	Integrated Software Applications I	4
BMGT	1325	Office Management	3

### Second Year

First Semester			Credit
ACNT*	1325	Principles of Accounting I	3
POFT	1325	Business Math and Machine Applications	3
POFI	1349	Spreadsheets	3
SPCH		SPCH 1315 or 1321	3

### Second Semester

ACNT*	1326	Principles of Accounting II	3
POFT	1349	Administrative Office Procedures II	3
ELCT		Social/Behavioral Science Selection	3
ELCT		POFI/POFT Internship Selection	3
<b>Total Hours</b>			<b>55</b>

\*ACNT 1325, 1326 or ACCT 2301, 2302.

## Office Management (OTOM) 520401 Certificate of Completion

### First Year

First Semester			Credit
POFI	1301	Computer Applications I	3
POFT	1329	Beginning Keyboarding	3
POFT	1301	Business English	3
BMGT	1303	Principles of Management	3
POFT	1309	Administrative Office Procedures I	3

### Second Semester

POFI	2301	Word Processing	3
POFT	1319	Records and Information Management I	3
POFT	2312	Business Correspondence and Communication	3
POFT	1325	Business Math and Machine Applications	3
BMGT	1325	Office Management	3
ITSC	1409	Integrated Software Applications I	4
<b>Total Hours</b>			<b>34</b>

## Protective Services

# Criminal Justice (CJCJ) 430104

## Associate of Applied Science Degree

### First Year

#### First Semester

		<b>Credit</b>
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
PHED 1130	Physical Conditioning	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
PHED	Physical Education	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 2301/2302	American Government I/II	3

#### Second Semester

CJSA 2331	Child Abuse, Prevention and Investigation	3
CJLE* 1211	Basic Firearms	2
ELCT	Criminal Justice Elective	3
SPCH 1321	Business and Professional Communication	3
ELCT	Humanities/Fine Arts Selection	3
ELCT	Computer Technology/Skills Selection	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

First Semester		Credit
CJSA 1322/CRIJ 1301	Introduction to Criminal Justice	3
CJCR 2325	Legal Aspects of Corrections	3
CJSA 1313/CRIJ 1306	Court Systems and Practices	3
CJSA 1312/CRIJ 1307	Crime in America	3
ENGL 1301	Composition I	3
PHED 1130	Physical Conditioning	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
PHED	Physical Education	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 2301/2302	American Government I/II	3

##### Second Semester

CJLE 1358	Rights of Prisoners	3
CJLE* 1211	Basic Firearms	2
ELCT	Criminal Justice Elective	3
SPCH 1321	Business and Professional Communication	3
ELCT	Humanities/Fine Arts Selection	3
ELCT	Computer Technology/Skills Selection	3
<b>Total Hours</b>		<b>67</b>

\* Appropriate Criminal Justice elective selection may substitute.

**Protective Services**

**Criminal Justice Studies with Specialization 430104  
Certificate of Completion**

**First Year**

<b>First Semester (Core Courses)</b>	<b>Credit</b>
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 Introduction to Criminal Justice	3
CJSA 1359/CRIJ 2328 Police Systems and Practices	3
<b>Core Courses Total</b>	<b>15</b>

<b>Second Semester (Criminal Justice Studies Specialization) (CJCJ)</b>	<b>Credit</b>
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>

<b>Second Semester (Criminal Justice Corrections Specialization) (CJCR)</b>	<b>Credit</b>
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>

## Criminal Justice - Law Enforcement Technology Specialization (CJLET) 430104

### Associate of Applied Science Degree

**First Year**

<b>First Semester</b>	<b>Credit</b>
CJSA1322/CRIJ 1301 Introduction to Criminal Justice	3
CJSA1312/CRIJ 1307 Crime in America	3
CJSA1317/CRIJ 1313 Juvenile Justice System	3
CJLE 1506 Basic Peace Officer I	5
ENGL 1301 Composition I	3
PHED 1130 Physical Conditioning	1

**Second Semester**

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

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

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

**Second Semester**

CJSA 2331 Child Abuse, Prevention and Investigation	3
CJLE 1524 Basic Peace Officer IV	5
SPCH 1321 Business and Professional Communication	3
ELCT Humanities/Fine Arts Selection	3
ELCT Computer Technology/Skills Selection	3
<b>Total Hours</b>	<b>67</b>

## Protective Services

### Fire Protection (FIPT) 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
PHED	1130	Physical Conditioning	1

##### Second Semester

FIRT	1307	Fire Prevention Codes and Inspection	3
FIRT	1319	Firefighter Health and Safety	3
FIRT	1331	Firefighting Strategies and Tactics I	3
ENGL		ENGL 1302 or 2311	3
MATH		MATH 1332, 1342 or higher level	3
PHED		Physical Education	1

#### Second Year

##### First Semester

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
SOCI	1301	Introduction to Sociology	3
GOVT	2301/2302	American Government I/II	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 Selection	3
<b>Total Hours</b>			<b>68</b>

**Fire Protection (FIPT) 430202****Certificate of Completion**

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

<b>First Semester</b>			<b>Credit</b>
FIRT	1301	Fundamentals of Fire Protection	3
FIRT	1331	Firefighting Strategies and Tactics I	3
FIRT	1338	Fire Protection Systems	3
FIRT	1309	Fire Administration I	3
FIRT	1315	Hazardous Materials I	3
<b>Second Semester</b>			
FIRT	1307	Fire Prevention Codes and Inspections	3
FIRT	1303	Fire and Arson Investigation I	3
FIRT	2331	Firefighting Strategies and Tactics II	
FIRT	1333	Fire Chemistry I	3
FIRT		Technical Elective	3
<b>Total Hours</b>			<b>30</b>

## Small Gas Engine Repair

# Small Engine Mechanic and Repairer (SGMR) 470606

## Associate of Applied Science Degree

(Offered at Fort Leonard Wood location only)

### First Year

#### First Semester

			Credit
DEMR	1401	Shop Safety and Procedures	4
or			
AUMT	1405	Introduction to Automotive Technology	
SMER	1471	Small Gas Engine Fundamentals	4
ENGL	1312	Business Writing	3
WLDG	1425	Introduction to Oxy-Fuel Welding and Cutting	4
SMER	1372	Shop Organization and Management	3

#### Second Semester

SMER	1428	Small Engine Service Principles	4
MATH	1332	Contemporary Mathematics	3
WLDG	1428	Introduction to Shielded Metal Arc Welding (SMAW)	4
ELCT		Humanities/Fine Arts Selection	3
SMER	1431	Small Engine Tune-Up	4

### Second Year

#### First Semester

WLDG	1430	Introduction to Gas Metal Arc (GMAW) Welding	4
SMER	1404	Marine Equipment Service Principles	4
SMER	1437	Small Engine Four Stroke Engine/Transmission	4
GOVT	2301/2302	American Government I/II	3
ELCT		Elective	3

#### Second Semester

SMER	1434	Small Engine Two Stroke Overhaul	4
SMER	1473	Large Air Cooled Engines	4
BUSG	2309	Small Business Management	3
ELCT		Computer Technology/Skills Selection	3
SPCH	1321	Business and Professional Communication	3
PHED		Physical Education	1

**Total Hours** 72

## Small Engine Mechanic and Repairer (SGMR) 470606 Certificate of Completion

(Offered at Fort Leonard Wood location only)

### First Year

#### First Semester

			<b>Credit</b>
DEMR	1401	Shop Safety and Procedures	4
or			
AUMT	1405	Introduction to Automotive Technology	
SMER	1471	Small Gas Engine Fundamentals	4
WLDG	1425	Introduction to Oxy-Fuel Welding and Cutting	4
SMER	1372	Shop Organization and Management	3

#### Second Semester

SMER	1428	Small Engine Service Principles	4
WLDG	1428	Introduction to Shielded Metal Arc Welding (SMAW)	4
SMER	1431	Small Engine Tune-Up	4
WLDG	1430	Introduction to Gas Metal Arc (GMAW) Welding	4

#### Third Semester

SMER	1404	Marine Equipment Service Principles	4
SMER	1437	Small Engine Four Stroke Engine/Transmission	4
SMER	1434	Small Engine Two Stroke Overhaul	4
SMER	1473	Large Air Cooled Engines	4
BUSG	2309	Small Business Management	3
<b>Total Hours</b>			<b>50</b>

## Welding Technology

# Welding (WLDG) 480508

## Associate of Applied Science Degree

### First Year

#### First Semester

			Credit
WLDG	1423	Welding Safety Tools and Equipment	4
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	1413	Introduction to Blueprint Reading for Welders	4
ENGL	1312	Business Writing	3
PHED		Physical Education	1

### Second Year

#### First Semester

WLDG	1430	Introduction to Gas Metal Arc (GMAW) Welding	4
WLDG	1435	Introduction to Pipe Welding	4
WLDG	1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
ELCT		Computer Technology/Skills Selection	3
GOVT	2301/2302	American Government I/II	3

#### Second Semester

WLDG	2453	Advanced Pipe Welding	4
SPCH	1321	Business and Professional Communication	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-Welding Technology/Welder	

**Total Hours** **70**

## Welding Technology (WLDG) 480508

### Certificate of Completion

			<b>Credit</b>
WLDG	1423	Welding, Safety, Tools and Equipment	4
WLDG	1413	Introduction to Blueprint Reading for Welders	4
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	2406	Intermediate Pipe Welding	4
WLDG	2453	Advanced Pipe Welding	4
WLDG	2435	Advanced Layout and Fabrication	4
or			
WLDG	2488	Internship-Welding Technology/Welder	
<b>Total Hours</b>			<b>56</b>

## Fitter (WLFC) 480508

### Certificate of Completion

			<b>Credit</b>
WLDG	1423	Welding Safety, Tools and Equipment	4
WLDG	1413	Introduction to Blueprint Reading for Welders	4
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
WLDG	1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
WLDG	1435	Introduction to Pipe Welding	4
WLDG	2406	Intermediate Pipe Welding	4
WLDG	2435	Advanced Layout and Fabrication	4
or			
WLDG	2488	Internship-Welding Technology/Welder	
<b>Total Hours</b>			<b>40</b>

## Welding Technology

### Welder (WLDG) 480508

#### Certificate of Completion

			<b>Credit</b>
WLDG	1423	Welding Safety, Tools and Equipment	4
WLDG	1413	Introduction to Blueprint Reading for Welders	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	2406	Intermediate Pipe Welding	4
WLDG	2453	Advanced Pipe Welding	4
WLDG	2435	Advanced Layout and Fabrication	4
or			
WLDG	2488	Internship-Welding Technology/Welder	4
<b>Total Hours</b>			<b>40</b>

### Tacker (WLTC) 480508

#### Certificate of completion

			<b>Credit</b>
WLDG	1423	Welding Safety, Tools and Equipment	4
WLDG	1413	Introduction to Blueprint Reading for Welders	4
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
WLDG	1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
WLDG	1435	Introduction to Pipe Welding	4
WLDG	2435	Advanced Layout and Fabrication	4
or			
WLDG	2488	Internship-Welding Technology/Welder	4
<b>Total Hours</b>			<b>36</b>