

## Associate of Arts

The Associate of Arts (A.A.) degree is awarded for any one of the following areas of concentration:

Anthropology  
 Art  
 Creative Writing  
 Dance  
 Drama  
 Economics  
 English  
 Foreign Language  
 General Studies in Liberal Arts  
 General Studies in Early Childhood Education  
 General Studies in Grade 4-8 Certification  
 Geography  
 Government  
 History  
 Journalism  
 Music  
 Philosophy  
 Psychology  
 Radio-Television-Film  
 Social Work  
 Sociology  
 Speech

## Associate of Science

The Associate of Science (A.S.) degree is awarded for any one of the following areas of concentration:

Biology  
 Business Administration  
 Chemistry  
 Computer Science  
 Engineering  
 Environmental Science & Technology  
 General Studies in Science  
 Geology  
 Health and Kinesiology  
 Mathematics  
 Physics/Astronomy  
 Pre-Dental/Pre-Medical/Pre-Pharmacy/Pre-Veterinary

## Associate of Applied Science

ACC awards the Associate of Applied Science (A.A.S.) degree and/or certificate in the following program areas:

Accounting	Jewelry
Automotive Technology	Legal Assistant
Biotechnology	Management
Building Construction Technology	Marketing
Child Development	Medical Coding
Commercial Music Management	Medical Laboratory Technology
Computer Information Technology	Meeting & Events Planning
Criminal Justice	Nursing (Professional)
Culinary Arts	Nursing (Vocational)
Dental Hygiene	Occupational Therapy Assistant
Digital Publishing & Graphics Technology	Office Administration
Electronics	Personal Fitness Trainer
Emergency Medical Services Professions	Pharmacy Technician
Engineering Design Graphics	Photographic Technology
Environmental Studies	Physical Therapist Assistant
Fashion Merchandising	Quality Assurance
Financial Management and Mortgage Banking	Radiology
Fire Protection	Real Estate
Land Surveying Technology/Geomatics	Semi-Conductor Manufacturing Technology
Heating, Air Conditioning & Refrigeration Technology	Sonography
Hospitality Management	Surgical Technology
Human Services	Technical Communications
General Human Services	Travel & Tourism
Addictions Counseling	Visual Communication Design
Interpreter Preparation Program	Welding Technology
Therapeutic Recreation	

See the following pages for degree plans. **Core courses** are shown in **boldface**. Please contact the appropriate department for further information about any specific degree requirements. Note: American Sign Language may substitute for the foreign language requirements in any degree plan with the exception of the Associate of Art degree in Foreign Language.

## ACCOUNTING

### Accounting Specialist

#### Associate of Applied Science Degree

This program is designed to provide an accounting curriculum for those students whose primary interests lie in the area of accounting, but who do not plan to become either a Certified Public Accountant or an accounting technician. This will be accomplished through providing a core curriculum of courses designed to impart a general theoretical and practical knowledge of accounting, and allowing the student discretion in selecting additional accounting and related courses. Note: In order to be granted the Associate of Applied Science Degree in Accounting, the student must maintain a 2.0 or better average for all accounting courses taken. Basic computer skills utilizing word processing, spreadsheet, and presentation software are recommended for all accounting courses.

<b>Semester I</b>		<b>Credit Hours</b>
	ENGL 1301 English Composition I	3
+	MATH 1324 Mathematics for Business and Economics	3
	ECON 2302 Principles of Microeconomics	3
	COSC 1301 Personal Computing	3
	ACCT 2301 Principles of Financial Accounting	3
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		15
<b>Semester II</b>		
	Oral Communication <sup>1</sup>	3
+	Humanities/Fine Arts <sup>2</sup>	3
+	ACCT 2302 Principles of Managerial Accounting <sup>3</sup>	3
+	ACNT 1171 Fundamentals of Intermediate Accounting	1
+	Business Law Elective <sup>4</sup>	3
	ECON 2301 Principles of Macroeconomics	3
		-----
		16
<b>Semester III</b>		
+	ACNT 2403 Intermediate Accounting I	4
+	ACNT 2309 Cost Accounting	3
+	ACNT Accounting Elective <sup>5</sup>	3
+	Business Elective <sup>4</sup>	3
+	Business Elective <sup>4</sup>	3
		-----
		16
<b>Semester IV</b>		
+	Accounting Elective <sup>5</sup>	3
+	Accounting Elective <sup>5</sup>	3
+	Business Elective <sup>4</sup>	3
+	ACNT 2304 Intermediate Accounting II	3
+#	ACNT 2375 Advanced Theory and Problems in Accounting <sup>6</sup> OR	3
+#	ACNT 2388 Internship–Accounting <sup>6</sup>	3
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		15
		-----
<b>TOTALS</b>		<b>62</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Oral Communications section of the General Education Course list.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list.

<sup>3</sup> Successful completion of ACCT 2301 (or equivalent) is required in order to enroll in ACCT 2302.

<sup>4</sup> Business elective subject to departmental approval.

<sup>5</sup> Accounting electives should reflect student's area of concentration in accounting subject to departmental approval.

<sup>6</sup> Students may also satisfy the capstone requirement by passing a departmental challenge exam.

### Accounting Technician

#### Associate of Applied Science Degree

This program is designed to prepare the student for entry level accounting positions in accounting firms, industry or government. This will be accomplished by training students in those skills necessary for successful performance as accounting technicians, with heavy emphasis on hands-on applications. Admission to the program is subject to departmental approval. See an accounting advisor.

<b>Semester I</b>		<b>Credit Hours</b>
	ENGL 1301 English Composition I	3
+	MATH 1342 Elementary Statistics	3
	Oral Communication <sup>1</sup>	3
	POFT 1127 Introduction to Keyboarding	1
	ACNT 1403 Introduction to Accounting I	4
		-----
		14
<b>Semester II</b>		
+	POFT 1231 Business Machine Applications–Data Entry	2
+	POFI 1449 Spreadsheets–Excel™	4
+	ACNT 2371 Small Business Accounting	3
+	ACNT 1311 Introduction to Computerized Accounting	3
+	ACNT 1404 Introduction to Accounting II	4
		-----
		16
<b>Semester III</b>		
+	ACNT 1475 Industry Accounting	4
+	POFI 1371 Access™	3
+	ACNT 1329 Payroll and Business Tax Accounting	3
+	ACNT 1392 Special Topics in Accounting Technician	3
	BMGT 1341 Business Ethics	3
		-----
		16
<b>Semester IV</b>		
+#	ACNT 2386 Internship–Accounting Technician	3
	ECON 2302 Principles of Microeconomics	3
	HRPO 2307 Organizational Behavior	3
	BUSI 2302 Business Law II	3
+	Humanities/Fine Arts <sup>2</sup>	3
		-----
		15
		-----
<b>TOTALS</b>		<b>61</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Oral Communications section of the General Education Course list.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list.

# Accounting

## Professional Accountant

### Associate of Applied Science Degree

This associate degree plan is designed to prepare the student to fulfill the accounting and business requirements of the CPA exam. The Texas State Board of Public Accountancy requires candidates for the exam to meet eligibility requirements, which include the completion of a bachelor's degree. Contact the State Board (512-305-7870) for complete information. Note: In order to be granted the Associate of Applied Science Degree in Accounting, the student must maintain a 2.0 or better average for all accounting courses taken. Basic computer skills utilizing word processing, spreadsheet, and presentation software are recommended for all accounting courses.

<b>Semester I</b>		<b>Credit Hours</b>
ENGL 1301	English Composition I	3
	Oral Communication <sup>1</sup>	3
ECON 2302	Principles of Microeconomics OR	3
ECON 2301	Principles of Macroeconomics	
COSC 1301	Personal Computing	3
ACCT 2301	Principles of Financial Accounting	3
+	Humanities/Fine Arts <sup>2</sup>	3
		-----
		18
<b>Semester II</b>		
BUSI 2301	Business Law I	3
+ MATH 1324	Mathematics for Business and Economics	3
+ ACCT 2302	Principles of Managerial Accounting <sup>3</sup>	3
+ ACNT 1171	Fundamentals of Intermediate Accounting	1
+ ACNT 1331	Federal Income Tax: Individual	3
+	Business Elective <sup>5</sup>	3
		-----
		16
<b>Semester III</b>		
+ ACNT 2403	Intermediate Accounting I	4
+ ACNT 2309	Cost Accounting	3
+ ACNT 2373	Accounting Information Systems	3
+ BUSG 2371	Business Statistics	3
+	Accounting Elective <sup>4</sup>	3
		-----
		16
<b>Semester IV</b>		
+ ACNT 2331	Internal Control and Auditing	3
+ ACNT 2304	Intermediate Accounting II	3
+	Accounting Elective <sup>4</sup>	3
BUSI 2302	Business Law II	3
+	Accounting Elective <sup>4</sup>	3
+# ACNT 2375	Advanced Theory and Problems in Accounting <sup>7</sup> OR	3
+# ACNT 2388	Internship–Accounting <sup>6/7</sup>	
		-----
		18
<b>TOTALS</b>		<b>68</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Oral Communications section of the General Education Course list.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list.

<sup>3</sup> Successful completion of ACCT 2301 (or equivalent) is required in order to enroll in ACCT 2302.

<sup>4</sup> Accounting electives are subject to departmental approval.

<sup>5</sup> Business electives are subject to departmental approval.

<sup>6</sup> In most cases, ACNT 2388 will not count as accounting hours for the CPA requirements. Contact an accounting advisor if you are considering taking ACNT 2388.

<sup>7</sup> Students may also satisfy the capstone requirement by passing a departmental challenge exam.

## Accounting Clerk

### Certificate

This certificate is designed to give students short-term workforce training in accounting. This program will provide the minimum training to obtain work as an entry level accounting technician.

<b>Semester I</b>		<b>Credit Hours</b>
+ POFT 1302	Business Communications I	3
+ POFT 1321	Business Math	3
POFT 1127	Introduction to Keyboarding	1
COSC 1301	Personal Computing	3
ACNT 1403	Introduction to Accounting I	4
		-----
		14
<b>Semester II</b>		
+ POFT 1231	Business Machine Applications–Data Entry	2
	Oral Communication <sup>1</sup>	3
PSYT 1303	Dynamics of Human Relations	3
+ ACNT 1311	Introduction to Computerized Accounting	3
+ ACNT 1404	Introduction to Accounting II	4
		-----
		15
<b>Semester III</b>		
+# ACNT 2386	Internship–Accounting Technician	3
		-----
		3
<b>TOTALS</b>		<b>32</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Oral Communications section of the General Education Course list.

## Accounting Specialist

### Marketable Skills Award

This award recognizes attainment of enhanced skills for those students employed in the accounting or related areas. All courses may be applied toward the Accounting Specialist or the Professional Accountant degree.

+ ACNT 2403	Intermediate Accounting I	4
+ ACNT 2309	Cost Accounting	3
+ ACNT 2331	Internal Control and Auditing	3
		-----
		10
<b>TOTALS</b>		<b>10</b>

+ Prerequisites: See Course Descriptions.

## Accounting Technician

### Marketable Skills Certificate

This award recognizes attainment of basic skills necessary for employment in the accounting area. All courses may be applied toward the Accounting Clerk certificate and the Accounting Technician degree.

ACNT 1403	Introduction to Accounting I	4
+ ACNT 1404	Introduction to Accounting II	4
+ ACNT 1311	Introduction to Computerized Accounting	3
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		11
		-----
<b>TOTALS</b>		<b>11</b>

+ Prerequisites: See Course Descriptions.

## PROFESSIONAL ACCOUNTANT

### Marketable Skills Certificate

This award recognizes attainment of enhanced skills for those students employed in the accounting or related areas. All courses may be applied toward the Professional Accountant or Accounting Specialist degree.

+ ACNT 2403	Intermediate Accounting I	4
+ ACNT 2304	Intermediate Accounting II	3
+ ACNT 1347	Federal Income Tax for Partnerships and Corporations	3
		-----
		10
		-----
<b>TOTALS</b>		<b>10</b>

+ Prerequisites: See Course Descriptions.

## ALLIED HEALTH SCIENCE

The Department of Allied Health Sciences (ALHS) is dedicated to educational excellence. To that end, every effort has been made to design and offer a diverse range of courses designed to meet student needs and facilitate student success. The ALHS department (HPRS) is an interdisciplinary department in Health Sciences whose main responsibility is providing prerequisite and co-requisite courses for other Health Science degrees and certificate programs.

A variety of courses in allied health specialties are offered for students who are: (1) seeking enrollment in ACC health science programs such as nursing, surgical and medical laboratory technology, emergency medical services (paramedicine), occupational and physical therapy, pharmacy technician, medical coding and dental technology, (2) co-enrolled in ACC health science programs, (3) transferring in to health science programs at other institutions, (4) exploring health science careers, or (5) co-enrolled in public schools and either investigating health careers or planning to continue at ACC in a health science program.

Courses in medical terminology, pharmacology, pathophysiology, death and dying, and introduction to health careers are offered by a team of qualified health professionals who have a diversity of backgrounds that complement each other. Some examples of current educational backgrounds include a doctorate in pharmacy and master's degrees in nursing and related health specialties.

Professors are also highly prepared in the latest teaching, learning philosophies, and practices. Innovative presentation techniques are utilized in the classroom through the implementation of the latest technology, such as PowerPoint presentations and appropriate audio-visual modalities. HPRS courses are offered in the traditional classroom setting and non-traditional setting, via the Internet and television. As a result, students may attend classes on campus or receive instruction at their home or business via the computer or television. Every attempt is made to enhance and strengthen the student's educational experiences.

Students should view the departmental web site for additional information about the program and course descriptions.

## ANTHROPOLOGY

### Anthropology

#### Associate of Arts Degree

The Associate of Arts degree in Anthropology provides students with the first two years of coursework towards a Bachelor of Arts degree in anthropology, preparing them for transfer to an institution that grants a baccalaureate degree. This degree plan offers a broad background of liberal arts courses transferable to a four-year institution, focusing on the cultural and biological diversity of the human species. Students who plan to transfer to an institution that grants a baccalaureate degree to continue their study of anthropology should refer to the catalog of that institution for their degree requirements and consult with an ACC instructor of anthropology.

Semester I		Credit Hours
	<b>ENGL 1301</b> English Composition I	3
	<b>HIST 1301</b> United States History I	3
	Foreign Language <sup>1</sup>	5
	<b>ANTH 2301</b> Physical Anthropology	3
	<b>SPCH 1311</b> Introduction to Speech Communication <sup>2</sup>	3
		-----
		17
<b>Semester II</b>		
+ <b>ENGL 1302</b>	English Composition II	3
<b>HIST 1302</b>	United States History II	3
+ Foreign Language <sup>1</sup>		5
+ Mathematics <sup>3</sup>		3
<b>ANTH 2351</b>	Cultural Anthropology	3
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		17

# Art

# Automotive Technology

<b>Semester III</b>		
ANTH 2302	Introduction to Archaeology	3
GOVT 2306	Texas State and Local Government	3
+	Natural Science <sup>4</sup>	3-4
	Visual and Performing Arts <sup>5</sup>	3
+	Humanities <sup>6</sup>	3
		-----
		15-16
<b>Semester IV</b>		
	Social and Behavioral Science <sup>7</sup>	3
GOVT 2305	United States Government	3
+	Humanities <sup>6</sup>	3
+	Natural Science <sup>4</sup>	3-4
	Elective <sup>8</sup>	3
		-----
		15-16
<b>TOTALS</b>		<b>64-66</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> All foreign language hours must be in the same language.

<sup>2</sup> SPCH 1315 may be substituted for SPCH 1311.

<sup>3</sup> Select from Mathematics section of the Core Curriculum Course list.

<sup>4</sup> Select from Natural Science section of the Core Curriculum Course list.

<sup>5</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

<sup>6</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>7</sup> Select from Other Social and Behavioral Sciences section of the Core Curriculum Course list.

<sup>8</sup> Although these courses may be selected from any program, students planning to transfer to an institution for a baccalaureate are advised to choose electives that will be applicable to their baccalaureate degree. Students are encouraged to choose from the Humanities section of the Core Curriculum.

## ART

### Art

#### Associate of Arts Degree

The Associate of Arts degree in Art provides students with the first two years of a liberal arts education as well as a comprehensive study and practice of the elements of art and visual communication.

<b>Semester I</b>		<b>Credit Hours</b>
ENGL 1301	English Composition I	3
HIST 1301	United States History I	3
+	Mathematics <sup>1</sup>	3
ARTS 1316	Drawing I	3
ARTS 1311	Design I	3
+	Natural Science <sup>2</sup>	3-4
		-----
		18-19
<b>Semester II</b>		
+	ENGL 1302 English Composition II	3
	HIST 1302 United States History II	3
+	Natural Science <sup>2</sup>	3-4
+	ARTS 1317 Drawing II OR	3
+	ARTS 2323 Life Drawing I	3
+	ARTS 1312 Design II	3
	Social and Behavioral Science <sup>3</sup>	3
		-----
		18-19

<b>Semester III</b>		
GOVT 2305	United States Government	3
+	Foreign Language <sup>4</sup>	5
+	Humanities <sup>5</sup>	3
	Oral Communication <sup>6</sup>	3
ARTS 1303	Art History I OR	3
ARTS 1304	Art History II	3
		-----
		17
<b>Semester IV</b>		
GOVT 2306	Texas State and Local Government	3
+	Foreign Language <sup>4</sup>	5
+	ARTS 2316 Painting I	3
+	Humanities <sup>5</sup>	3
ARTS 2346	Ceramics I OR	3
ARTS 2326	Sculpture I	3
		-----
		17
<b>TOTALS</b>		<b>70-72</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from Mathematics section of the Core Curriculum Course list.

<sup>2</sup> Select from Natural Science section of the Core Curriculum Course list.

<sup>3</sup> Select from Other Social and Behavioral Sciences section of the Core Curriculum Course list.

<sup>4</sup> Foreign language hours must be in the same language.

<sup>5</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>6</sup> Select any Speech course from the Communications section of the Core Curriculum Course list.

## ART METALS

See Welding Technology

## AUTOMOTIVE TECHNOLOGY

The Automotive Technology program at Austin Community College offers NATEF certified automotive technician training. The program offers a variety of degree and certificate options, including a two-year Associate in Applied Science Degree, a one-year Certificate program, four specialized Certificate programs of less than one year, as well as an Enhanced Skills certificate.

The program provides training in maintenance repair work on automotive vehicles. Included is training in the use of technical manuals and a variety of hand and power tools. Instruction and practice is provided in diagnosis of malfunctions; disassembly of units; parts inspection; and repair or replacement of parts involving engine overhaul and repair, ignition systems, fuel injection systems, brakes, transmission, electrical systems, air conditioning, and suspension systems.

Austin Community College's Automotive Technology program is a Tech Prep Program participant. High School students may receive college credit for approved courses taken during high school. Tech Prep program participants will receive an Enhanced Skills Certificate. Articulating Tech Prep courses include AUMT 1405, AUMT 1407, AUMT 2417, AUMT 1410, AUMT 1416, AUMT 2489, COSC 1301. High School students should discuss these options with their high school counselor. Other students should contact an Automotive Technology advisor.

# Automotive Technology

## Automotive Technology

### Associate of Applied Science Degree

<b>Semester I</b>		<b>Credit Hours</b>
COSC 1301	Personal Computing	3
AUMT 1405	Introduction to Automotive Technology	4
AUMT 1407	Automotive Electrical Systems	4
AUMT 1419	Automotive Engine Repair	4
SPCH 1311	Introduction to Speech Communication	3
		18
<b>Semester II</b>		
ENGL 1301	English Composition I	3
AUMT 2417	Engine Performance Analysis I	4
AUMT 2425	Automatic Transmissions and Transaxles	4
AUMT 1445	Automotive Heating and Air Conditioning	4
		15
<b>Semester III</b>		
AUMT 2437	Automotive Electronics	4
+ AUMT 2434	Engine Performance Analysis II	4
AUMT 1410	Automotive Brake Systems	4
+ MATH 1332	College Mathematics	3
	Social and Behavioral Science	3
		18
<b>Semester IV</b>		
AUMT 2413	Manual Drive Train and Axles	4
AUMT 1416	Suspension and Steering	4
# AUMT 2489	Internship Automotive Technician	4
		12
<b>TOTALS</b>		<b>63</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Automotive Technology

### Enhanced Skills Certificate

BUSG 2309	Small Business Management	3
AUMT 2428	Automotive Service	4
# AUMT 2489	Internship Automotive Technician	4
		11
<b>TOTALS</b>		<b>11</b>

# Capstone course

## Automotive Brake and Suspension

### Certificate

A 736 clock-hour program designed to prepare students to become specialists in the area of brakes and supervision. The student will complete five Automotive Technology courses to prepare for entry-level positions in a chosen area of study. These courses can be included in the Associate of Applied Science in Automotive Technology.

AUMT 1405	Introduction to Automotive Technology	4
AUMT 1407	Automotive Electrical Systems	4
AUMT 2437	Automotive Electronics	4
# AUMT 2489	Internship Automotive Technician	4
AUMT 1410	Automotive Brake Systems	4
AUMT 1416	Suspension and Steering	4
		24
<b>TOTALS</b>		<b>24</b>

# Capstone course

## Automotive Drive Train Specialist

### Certificate

A 736 clock-hour course designed to prepare students to become Specialists in the Automotive Drive Train area. The student will complete five automotive technology courses to prepare for entry-level positions in their area of study. These courses can be included in the Associate of Applied Science Degree in Automotive Technology.

AUMT 1405	Introduction to Automotive Technology	4
AUMT 1407	Automotive Electrical Systems	4
AUMT 2437	Automotive Electronics	4
# AUMT 2489	Internship Automotive Technician	4
AUMT 2425	Automatic Transmissions and Transaxles	4
AUMT 2413	Manual Drive Train and Axles	4
		24
<b>TOTALS</b>		<b>24</b>

# Capstone course

# Automotive Technology

## Automotive Engine Performance Specialist

### Certificate

A 576 clock-hour course designed to prepare students to become Specialists in the Automotive Engine area. The student will complete six Automotive Technology courses to prepare for entry-level positions in an area of study. These courses can be included in the Associate of Applied Science Degree in Automotive Technology.

AUMT 1405	Introduction to Automotive Technology	4
AUMT 1407	Automotive Electrical Systems	4
AUMT 2437	Automotive Electronics	4
# AUMT 2489	Internship Automotive Technician	4
AUMT 2417	Engine Performance Analysis I	4
AUMT 2434	Engine Performance Analysis II	4
		-----
		24
		-----
<b>TOTALS</b>		<b>24</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Automotive Heating & Air Conditioning

### Certificate

AUMT 1405	Introduction to Automotive Technology	4
AUMT 1407	Automotive Electrical Systems	4
AUMT 2437	Automotive Electronics	4
# AUMT 2489	Internship Automotive Technician	4
AUMT 1445	Automotive Heating and Air Conditioning	4
AUMT 2428	Automotive Service	4
		-----
		24
		-----
<b>TOTALS</b>		<b>24</b>

# Capstone course

## Automotive Technician

### Certificate

Semester I (Fall)		Credit Hours
AUMT 1405	Introduction to Automotive Technology	4
AUMT 1407	Automotive Electrical Systems	4
AUMT 1419	Automotive Engine Repair	4
AUMT 2417	Engine Performance Analysis I	4
		-----
		16
<b>Semester II (Spring)</b>		
AUMT 2425	Automatic Transmissions and Transaxles	4
AUMT 1416	Suspension and Steering	4
AUMT 2437	Automotive Electronics	4
+ AUMT 2434	Engine Performance Analysis II	4
		-----
		16
<b>Semester III (Summer)</b>		
AUMT 2413	Manual Drive Train and Axles	4
# AUMT 2489	Internship Automotive Technician	4
		-----
		8
		-----
<b>TOTALS</b>		<b>40</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Marine Engine Repair

### Certificate

This certificate provides power mechanics technology training in the principles and operation of marine two and four cycle engines, electrical systems, engine failure analysis, tune-up, hydraulic principles, lower unit drives, and extensive laboratory experience. It includes marine engine transit mounting and height adjustments.

Semester I		Credit Hours
# SMER 1466	Practicum--Small Engine Mechanic and Repairer	4
SMER 1404	Outboard Service Principles	4
SMER 1413	Outboard Electrical Systems	4
		-----
		12
<b>Semester II</b>		
SMER 1407	Outboard Powerhead Overhaul	4
SMER 1410	Outboard Lower Units	4
# SMER 1466	Practicum--Small Engine Mechanic and Repairer	4
		-----
		12
		-----
<b>TOTALS</b>		<b>24</b>

# Capstone course

## Motorcycle Repair

### Certificate

This certificate provides power mechanics technology training in the principles and operation of motorcycle two and four cycle engines, electrical systems, engine failure analysis, tune-up, hydraulic principles and extensive laboratory experience. It covers motorcycle chassis mounted equipment. It includes, brakes, wheels and tires, clutches, drive chains, and transmissions.

Semester I		Credit Hours
MTRC 1402	Motorcycle Tune Up	4
MTRC 1405	Motorcycle Service Principles	4
SMER 1422	Motorcycle Electrical Systems	4
		12
Semester II		
SMER 1419	Motorcycle Four Stroke Engine/ Transmission	4
MTRC 1408	Motorcycle Chassis and Drive Systems	4
# SMER 1466	Practicum–Small Engine Mechanic & Repairer	4
		12
<b>TOTALS</b>		<b>24</b>

# Capstone course

## Small Engine Repair

### Certificate

This program will provide power mechanics technology training in the principles and operation of two and four cycle small engines, electrical systems, engine failure analysis, tune-up, hydraulic principles and extensive laboratory experience. It encompasses equipment that is powered by small engines, i.e., lawn mowers, grass trimmers, and chain saws. It covers cutting deck mounting, height and drive belt adjustments. It also includes gear case overhaul, and chain service and repair.

Semester I		Credit Hours
SMER 1434	Small Engine Two Stroke Overhaul	4
SMER 1431	Small Engine Tune Up	4
SMER 1425	Small Engine Electrical Systems	4
		12
Semester II		
SMER 1428	Small Engine Service Principles	4
SMER 1437	Small Engine Four Stroke Overhaul	4
# SMER 1466	Practicum–Small Engine Mechanic and Repairer	4
		12
<b>TOTALS</b>		<b>24</b>

# Capstone course

## BIOLOGY

### Biology

#### Associate of Science Degree

The Associate of Science degree is intended to provide students with the first two years of college biology education. To receive an Associate of Science degree in Biology, the student must (a) make a minimum grade of C in all required math and science courses, and (b) have an overall GPA of 2.0 or greater.

Semester I		Credit Hours
<b>ENGL 1301</b>	English Composition I	3
+ <b>BIOL 1406</b>	Cellular and Molecular Biology	4
+ <b>CHEM 1411</b>	General Chemistry I	4
+	Mathematics <sup>1</sup>	3-4
+	Humanities <sup>2</sup>	3
		17-18
Semester II		
+ <b>ENGL 1302</b>	English Composition II	3
+ <b>BIOL 1407</b>	Structure and Function of Organisms	4
+ <b>CHEM 1412</b>	General Chemistry II	4
+	Mathematics <sup>3</sup>	3-4
	Oral Communication <sup>4</sup>	3
		17-18
Semester III		
+ <b>PHYS 1401</b>	General College Physics I OR	4
+ <b>PHYS 2425</b>	Engineering Physics I History <sup>5</sup>	3
<b>GOVT 2305</b>	United States Government OR	3
<b>GOV 2633</b>	Special Topics in United States Government	3
	Visual and Performing Arts <sup>6</sup>	3
+	Biology Elective <sup>7</sup>	3
+	Humanities <sup>2</sup>	3
		19
Semester IV		
+ <b>PHYS 1402</b>	General College Physics II OR	4
+ <b>PHYS 2426</b>	Engineering Physics II	3
<b>GOVT 2306</b>	Texas State and Local Government History <sup>8</sup>	3
+	Biology Elective <sup>7</sup>	3-4
	Social and Behavioral Science <sup>9</sup>	3
		16-17
<b>TOTALS</b>		<b>69-72</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from MATH 1314, MATH 1316, MATH 2412, or MATH 2413. Students must first consult with a mathematics advisor.

<sup>2</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>3</sup> Select from MATH 1316, MATH 2412, MATH 2413, or MATH 2414.

<sup>4</sup> Select any Speech course from the Communications section of the Core Curriculum Course list.

<sup>5</sup> Select from HIST 1301, HIST 2381, HIST 2380 or HIST 2301.

<sup>6</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

<sup>7</sup> Biology electives must total a minimum of six (6)Semester hours, to be determined in consultation with a biology faculty advisor.

<sup>8</sup> Select from HIST 1302, HIS 1643, HIS 1663 or HIST 2341.

<sup>9</sup> Select from Other Social and Behavioral Sciences section of the Core Curriculum Course list.

# Biotechnology

## BIOTECHNOLOGY

### Biotechnology

#### Associate of Applied Science Degree

This program provides biotechnology experience with general education courses in the arts and sciences and is designed to prepare persons for working in medical, research and industrial laboratory areas. Students interested in this program should consult with a full-time biotechnology instructor before taking any courses. To receive an A.A.S. degree in Biotechnology, the student must (a) make a minimum grade of "C" in all required math and science courses, and (b) have an overall GPA of 2.0 or greater.

Prerequisites	Credit Hours
ENGL 1301 English Composition I	3
+ CHEM 1405 Introduction to Chemistry	4
	7
<b>Semester I</b>	
+ BITC 1311 Introduction to Biotechnology <sup>1</sup>	3
+ BIOL 1406 Cellular and Molecular Biology	4
+ CHEM 1411 General Chemistry I	4
+ ENGL 1302 English Composition II OR	3
+ ENGL 2311 Technical & Business Writing <sup>2</sup>	3
+ MATH 1314 College Algebra <sup>3</sup>	3
	17
<b>Semester II</b>	
+ BITC 1402 Biotechnology Laboratory Methods and Techniques <sup>4</sup> OR	4
+ CHEM 2423 Organic Chemistry I	4
+ CHEM 1412 General Chemistry II	4
QCTC 1242 Quality Assurance for the Biosciences	2
COSC 1301 Personal Computing <sup>5</sup> OR	3
COSC 1300 Introduction to Computing	3
	13
<b>Semester III</b>	
+ BITC 2431 Cell Culture Techniques	4
+ Humanities/Fine Arts <sup>6</sup>	3
	7
<b>Semester IV</b>	
PSYC 2301 Introduction to Psychology <sup>7</sup>	3
+ BITC 2401 Molecular Biology Techniques	4
+ BIOL 2421 Microbiology	4
+ Science/Math Elective <sup>8</sup>	3-4
	14-15
<b>Semester V</b>	
SPCH 1318 Interpersonal Communication <sup>9</sup>	3
+ BITC 1401 Biotechnology Laboratory Instrumentation	4
# BITC 2487 Internship-Biological Technology/Technician II	4
	11
<b>TOTALS</b>	<b>69-70</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Can be taken in high school or waived by Program Coordinator.

Prerequisite courses are CHEM 1405 and ENGL 1301 or appropriate scores on the assessment tests.

<sup>2</sup> Student should consult with a full-time biotechnology instructor before selecting course.

<sup>3</sup> Or any college level math.

<sup>4</sup> For transfer to a four-year college or university, students should substitute CHEM 2423.

<sup>5</sup> Students should consult with a full-time instructor before selecting from COSC 1315, ITSE 1331, and ITSC 1309.

<sup>6</sup> Select from Humanities/Fine Arts section of the General Education Course list.

<sup>7</sup> May substitute ANTH 2301, ANTH 2351, ECON 2302, ECON 2301, or SOCI 1301.

<sup>8</sup> Elective should reflect student's area of concentration: BITC 2486, PHYS 1401, any college level math, BIOL 2401, BIOL 1407. For transfer to a four-year college or university, students should take CHEM 2425.

<sup>9</sup> Students may select another Speech course upon consultation with a full time biotechnology instructor.

## Biotechnology

### Certificate

This certificate prepares students to function as entry-level biotechnicians in the laboratory or in biotechnology manufacturing. To receive a Certificate in Biotechnology, the student must (a) make a minimum grade of "C" in all required math and science courses, and (b) have an overall GPA of 2.0 or greater.

Prerequisites	Credit Hours
+ CHEM 1405 Introduction to Chemistry	4
	4
<b>Semester I</b>	
+ BITC 1311 Introduction to Biotechnology <sup>1</sup>	3
+ BIOL 1406 Cellular and Molecular Biology	4
+ CHEM 1411 General Chemistry I	4
ENGL 1301 English Composition I	3
	14
<b>Semester II</b>	
+ BITC 1402 Biotechnology Laboratory Methods and Techniques	4
+ CHEM 1412 General Chemistry II	4
BIOL 2421 Microbiology	4
COSC 1301 Personal Computing OR	3
COSC 1300 Introduction to Computing	3
	15
<b>Semester III</b>	
+# BITC 2486 Internship-Biological Technology/Technician I	4
QCTC 1242 Quality Assurance for the Biosciences	2
	6
<b>TOTALS</b>	<b>39</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> May be taken in high school or waived by Program Coordinator.

Prerequisite courses are CHEM 1405 or appropriate scores on the assessment tests.

# Building Construction Technology

## BUILDING CONSTRUCTION TECHNOLOGY

The Building Construction Technology program at Austin Community College provides the student with the knowledge and skill to successfully enter the Construction Industry as a Carpenter Helper, a Cabinet Maker Helper, or as an Assistant Superintendent. Specific courses are available to experienced workers to expand their level of expertise such as Construction Cost Estimating, Blueprint Reading, Computer-Aided Project Scheduling, or Construction Safety.

## Construction Management

### Associate of Applied Science Degree Tech Prep

The Construction Management Degree prepares students for a variety of jobs within the Construction Industry. Students get experience in Concrete construction, Carpentry, Plumbing, Wiring, and Air Conditioning, as well as taking Construction Cost Estimating, Project Scheduling, and Management courses. Internships as "Assistant Superintendents" within the Industry are an integral part of the program. Students with verifiable work or learning experience may have courses waived or substituted for courses more suited to meet individual need.

Semester I	Credit Hours
Written Communication <sup>1</sup>	3
CNBT 1411 Construction Methods and Materials	4
+ CNBT 1305 Residential and Light Commercial Blueprint Reading	3
+ CNBT 1342 Building Codes and Inspections	3
+ CNBT 1413 Concrete-Residential	4
	17
Semester II	
Oral Communication <sup>2</sup>	3
OSHT 1405 OSHA Regulations-Construction Industry	4
+ CRPT 1415 Conventional Wall Systems	4
+ CNBT 1402 Mechanical, Plumbing and Electrical Systems in Construction	4
	15
Semester III	
+ Mathematics <sup>3</sup>	3
+ CNBT 1471 Building for Resource Conservation	4
+ CNBT 2344 Construction Management II	3
+ CNBT 2346 Construction Management III	3
	13

Semester IV		
Social and Behavioral Science <sup>4</sup>		3
Humanities <sup>5</sup>		3
+ CNBT 1346 Construction Estimating I		3
+ CNBT 2337 Construction Estimating II		3
+ CNBT 2332 Project Scheduling		3
+ CNBT 2335 Computer-Aided Construction Scheduling		3
		18

Semester V		
+ CRPT 1441 Conventional Exterior Finish Systems		4
+ CRPT 1445 Conventional Interior Finish Systems		4
+# CNBT 2280 Cooperative Education-Construction/ Building Technology/Technician		2
		10

**TOTALS** **73**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Written Communication section of the General Education Course list.

<sup>2</sup> Select from Oral Communication section of the General Education Course list.

<sup>3</sup> Select from Computational Skills section of the General Education Course list.

<sup>4</sup> Select from Social and Behavioral Science section of the General Education Course list.

<sup>5</sup> Select from Humanities/Fine Arts section of the General Education Course list.

## Carpentry

### Certificate

Persons desiring to frame houses and/or becoming framing sub-contractors will learn conventional methods of wood framing and metal framing as they take courses that teach from the "ground up" process of floor, wall, and roof framing. Students will also take Exterior and Interior Finishing, Blueprint Reading, Construction Safety and then learn from "real job site" training with the "On the Job Training" Cooperative Intern class that allows them a positive transition from "school to work."

Semester I	Credit Hours
CNBT 1411 Construction Methods and Materials	4
OSHT 1405 OSHA Regulations-Construction Industry	3
+ CNBT 1305 Residential and Light Commercial Blueprint	3
	10
Semester II	
+ CRPT 1415 Conventional Wall Systems	4
+ CRPT 2435 Metal Wall Systems	4
+ CRPT 1411 Conventional Roof Systems	4
	12

## Semester III

+ CRPT	1441	Conventional Exterior Finish Systems	4
+ CRPT	1445	Conventional Interior Finish Systems	4
+ CNBT	1491	Special Topics in Construction/ Building Technology/Technician	4
+# CNBT	2280	Cooperative Education—Construction/ Building Technology/Technician	2
			-----
			14

**TOTALS** 36

+ Prerequisites: See Course Descriptions.

# Capstone course

## Woodworking

### Certificate

Students desiring to build cabinets and furniture will take a sequence of courses starting at “Beginning Woodworking” and culminating at “Advanced Furniture Making” that will ensure them the knowledge and skill that is required to be a successful woodworker. Students will also take “Construction Safety” and “Blueprint Reading” and the “On the Job Training” Cooperative Intern class to allow them a positive transition from “school to work.”

Semester I		Credit Hours	
CNBT	1210	Construction Methods and Materials — Beginning Woodworking	2
+ CNBT	1305	Residential and Light Commercial Blueprint Reading	3
OSHT	1405	OSHA Regulations — Construction Industry	3
			-----
			8
Semester II			
+ WDWK	1413	Cabinet Making	4
+ CNBT	1211	Construction Methods and Materials — Intermediate Woodworking—Furniture	2
WDWK	1491	Special Topics in Cabinet Maker and Millworker	4
			-----
			10
Semester III			
WDWK	2451	Cabinet Making II	4
+ CNBT	1311	Construction Methods and Materials —Advanced Furniture Construction	3
+# CNBT	2280	Cooperative Education — Construction/Building Technology/ Technician	2
			-----
			9
			-----
<b>TOTALS</b>			<b>27</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

### Certificate

One year certificates are available in the following areas: Concrete/Masonry, Building Maintenance, Carpentry, and Cabinetry/Interior Finishing. Students may complete the first semester of any certificate while in high school as part of a Tech Prep plan.

## BUSINESS ADMINISTRATION

### Business Administration

#### Associate of Science Degree

Business Administration is designed to prepare the student for transfer to a four-year university baccalaureate program. In addition to business courses, the curriculum includes math, science, social sciences, and humanities. All the courses in this degree plan must be taken and passed in order to earn the Associate of Science in Business Administration. The order, given below, in which these courses should be taken, is just a suggestion. Students may take the courses in any order they want to except for those courses that require a course prerequisite (+). The Business Administration degree is a transfer degree and represents the first two years of a four-year degree and will vary from university to university. Students transferring should consult with an advisor or articulation officer from their receiving institution.

Semester I		Credit Hours	
ENGL	1301	English Composition I	3
HIST	1301	United States History I	3
BUSI	1301	Introduction to Business OR Restricted Elective <sup>1</sup>	3
BCIS	1305	Business Computer Applications <sup>2</sup> OR	3
COSC	1315	Fundamentals of Programming Mathematics <sup>3</sup>	3
			-----
			15
Semester II			
+ ENGL	1302	English Composition II	3
HIST	1302	United States History II	3
ECON	2302	Principles of Microeconomics	3
+		Natural Science <sup>4</sup>	3-4
+		Mathematics <sup>3</sup>	3-4
			-----
			15-17
Semester III			
+		Literature Course <sup>5</sup>	3
GOVT	2305	United States Government	3
ACCT	2301	Principles of Financial Accounting	3
ECON	2301	Principles of Macroeconomics	3
+		Natural Science <sup>4</sup>	3-4
			-----
			15-16

# Chemistry

## Semester IV

	<b>GOVT 2306</b>	Texas State and Local Government	3
+	<b>ACCT 2302</b>	Principles of Managerial Accounting	3
		Visual and Performing Arts <sup>6</sup>	3
+		Humanities <sup>6</sup>	3
		Oral Communication <sup>7</sup>	3

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15  
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**TOTALS** 60-63

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Choose from the following: BUSG 2371 or BUSI 2301. It is recommended that students without a prior business course or business experience enroll in BUSI 1301. Students should consult with their receiving institution as to the transferability of any business elective taken at ACC.

<sup>2</sup> Computer Information Management and Management Information Systems majors should consult with an academic advisor.

<sup>3</sup> Students are required to take MATH 1425 or Math 2413. In addition, students must take one other course from this list: MATH 1314, MATH 1324, or MATH 1476. Students should first consult with an ACC mathematics instructor for placement, which may include taking additional ACC mathematics courses to satisfy prerequisites. Each four-year school has a requirement for two specific mathematics courses and most expect that transfer students will complete both of their required courses before they transfer. You may ask for an exception if the school you want to transfer to has different requirements from these listed.

<sup>4</sup> Natural Science Restricted electives: Physical and/or biological science must be chosen from the following: BIOL, CHEM, GEOL, PHYS. Both science courses must be from the same department. Each four-year school has a requirement for two specific natural science courses and most expect that transfer students will complete both of their required courses before they transfer. Consult a business advisor if you wish to take different courses than those recommended.

<sup>5</sup> The literature course must be chosen from the following: ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, or ENGL 2343.

<sup>6</sup> Students must take these electives from the core curriculum. This includes a Visual and Performing Arts course and an additional Humanities course. Consult the catalog core curriculum for a list of acceptable courses. Consult a business advisor for additional advising information.

<sup>7</sup> Select any Speech course from the Communications section of the Core Curriculum Course list. SPCH 1321 is the preferred course.

## CHEMISTRY

### Chemistry

#### Associate of Science Degree

The Associate of Science degree is intended to provide students with the first two years of college chemistry education through organic chemistry level. To receive an Associates of Science degree in chemistry, the student must: (a) make a minimum of "C" in all required math and science courses and (b) have an overall GPA of 2.0 or greater.

			<b>Credit Hours</b>
+	<b>CHEM 1411</b>	General Chemistry I	4
	<b>ENGL 1301</b>	English Composition I	3
+	<b>BIOL 1406</b>	Cellular and Molecular Biology	4
		History <sup>1</sup>	3
		Communications II <sup>2</sup>	3

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17

# Child Development

## Semester II

+	<b>CHEM 1412</b>	General Chemistry II	4
+	<b>ENGL 1302</b>	English Composition II	3
+	<b>MATH 2413</b>	Calculus I <sup>3</sup>	4
		Humanities I <sup>4</sup>	3
		History <sup>5</sup>	3

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17

## Semester III

+	<b>CHEM 2423</b>	Organic Chemistry I	4
	<b>GOVT 2305</b>	United States Government OR	3
	<b>GOV 2633</b>	Special Topics in United States Government	
+	<b>MATH 2414</b>	Calculus II	4
+	<b>PHYS 2425</b>	Engineering Physics I	4
		Humanities II <sup>6</sup>	3

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18

## Semester IV

+	<b>CHEM 2425</b>	Organic Chemistry II	4
	<b>GOVT 2306</b>	Texas State and Local Government	3
+	<b>PHYS 2426</b>	Engineering Physics II	4
		Social and Behavioral Science <sup>7</sup>	3
		Visual and Performing Arts <sup>8</sup>	3

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17

**TOTALS** 69

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from HIST 1301, HIST 2381, HIST 2380, or HIST 2301.

<sup>2</sup> Select from Communications II section of the Core Curriculum Course list.

<sup>3</sup> Students should first consult with a mathematics advisor to determine where they should begin their mathematics study. They may need to take one or more courses prior to taking MATH 2413.

<sup>4</sup> Select from Humanities I section of the Core Curriculum Course list.

<sup>5</sup> Select from HIST 1302, HIS 1643, HIS 1663, or HIST 2341.

<sup>6</sup> Select from Humanities II section of the Core Curriculum Course list.

<sup>7</sup> Select from Social and Behavioral Sciences section of the Core Curriculum Course list.

<sup>8</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

## CHILD DEVELOPMENT

The Child Development Program prepares students for employment as classroom assistants, teachers, directors and child advocates in early care and education programs. A variety of course options are available including CDA Training, a Certificate and an Associate of Applied Science. All courses contain a combination of teaching theory and methods based on developmentally appropriate practices along with practical work experience gained through laboratory hours spent working with children in early care and education settings.

In the field of study for Early Childhood Education approved by the State of Texas for Pre-K through 4th Grade Teachers, TECA 1303(Family and Community), TECA 1311 (Introduction to Early Childhood Education), TECA 1318 (Nutrition, Health and Safety), and TECA 1354 (Child Growth and Development) will be accepted as transfer

# Child Development

courses to satisfy lower division requirements. For more information, contact the Child Development Department at 223-5201.

Special Admissions Requirements for All Child Development Students: Because of the criteria for child care center volunteers determined by the Texas Department of Protective and Regulatory Services Minimum Standards for Day Care Centers, there are special requirements for enrollment in child development courses with laboratory components. Students enrolled in these courses will be required to complete a criminal history statement the first day of class, which will be submitted for verification of the information provided, as required by the Texas Department of Protective and Regulatory Services.

Students with a felony conviction for any offense under Title 5, Title 6 or Chapter 43 of Title 9 of the Penal Code are not eligible to take child development courses with laboratory components or to work in child care settings. Students with any other misdemeanor or felony indictment, conviction or complaint may not enroll in child development courses until an assessment of risk is completed by the Texas Department of Protective and Regulatory Services. Students should plan on beginning the risk assessment process, which must be completed with the Austin Community College Children's Laboratory School, three months prior to enrolling in child development courses. Contact the Child Development Program Coordinator at 223-5201 or the Supervisor of the Children's Laboratory School at 223-5200, for more information. Special Admission Requirements for the Academic CDA Training Program, Child Development Certificate and/or Associate Degree:

To encourage success in the Child Development Program, admission to the Child Development Certificate Program or the Academic CDA Training Program requires students to complete the Reading and Writing portions of the ACC Assessment for placement. Students who place into Fundamentals of Reading (DEVR 0303) or Fundamentals of Writing (DEWV 0403), on the basis of their assessment scores, must successfully complete these course requirements before enrolling in child development courses.

Students who place into Reading Skills I (DEVR 1303) and/or Writing Skills I (DEWV 1403), on the basis of their assessment scores must co-enroll in these courses while taking child development courses.

Other Special Requirements for Child Development:

1. Students must receive a C or above in each child development course for the courses to be accepted toward the Child Development Certificate or Associate of Applied Science Degree.
2. Prospective students who have a current PAC (Professional Administrator Credential) may receive credit for CDEC 2326. For information, contact the Child Development Department at 223-5201.
3. Prospective students who have a current CDA (Child Development Credential) may have the course requirement for TECA 1311 waived. For information, contact the Child Development Department at 223-5201.

4. Students enrolled in CDEC 1166 or CDEC 2166 must complete 10 hours of regularly scheduled lab work; 5 hours of this must be completed at the ACC Children's Laboratory School.
5. Students enrolled in CDEC 1166 or CDEC 2166 must obtain a negative TB test during the first two weeks of the semester to continue in these courses.

## Child Development

### Associate of Applied Science Degree

This program has special admission requirements. Please see the information provided in the beginning of the Child Development Section, in this catalog, on Special Admission Requirements for All Child Development Students and Special Admissions Requirements for the Academic CDA Training Program, Certificate and Associate Degree.

			Credit Hours
<b>Semester I</b>			
+ TECA	1303	Family and Community	3
+ TECA	1354	Child Growth and Development	3
+ CDEC	1359	Children with Special Needs	3
+ TECA	1311	Introduction to Early Childhood Education	3
+ TECA	1318	Nutrition, Health, and Safety	3
<b>ENGL</b>	<b>1301</b>	English Composition I	3
			-----
			18
<b>Semester II</b>			
+ CDEC	1413	Curriculum Resources for Early Childhood Programs	4
+ CDEC	1419	Child Guidance	4
+ CDEC	1321	The Infant and Toddler	3
+ CDEC	2341	The School Age Child	3
+ CDEC	1166	Practicum I—Child Development and Early Childhood	1
+ CDEC	1392	Special Topics in Child Development	3
			-----
			18
<b>Semester III</b>			
+ CDEC	1456	Emergent Literacy for Early Childhood	4
+ CDEC	1458	Creative Arts for Early Childhood	4
+ CDEC	2326	Administration of Programs for Children	3
	<b>PSYC 2301</b>	Introduction to Psychology	3
+ <b>MATH 1314</b>		College Algebra OR	3
+ <b>MATH 1332</b>		College Mathematics	3
			-----
			17
<b>Semester IV</b>			
+ CDEC	1457	Math & Science for Early Childhood	4
+# CDEC	2166	Practicum II—Child Development and Early Childhood	1
+ CDEC	1394	Special Topics in Early Childhood	3
	<b>COSC 1301</b>	Personal Computing	3
	<b>SPCH 1318</b>	Interpersonal Communication	3
+		Humanities/Fine Arts <sup>1</sup>	3
			-----
			17
			-----
<b>TOTALS</b>			<b>70</b>

# Child Development

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Must be selected from the following: ARTS 1303, ARTS 1304, DANC 2303, HUMA 1301, HUMA 1315, MUSI 1306, or PHIL 2306.

## Child Development

### Associate of Applied Science Degree Tech Prep

This program is designed for those students who have successfully completed a high school "Tech Prep" Child Development Program that has been articulated with Austin Community College. This program has special admission requirements. Please see the information provided in the beginning of the Child Development Section, in this catalog, on Special Admission Requirements for All Child Development Students.

Credit-in-Escrow	Credit Hours
+ CDEC 1321 The Infant and Toddler OR	3-4
+ CDEC 1458 Creative Arts for Early Childhood	
COSC 1301 Personal Computing	3
	-----
	6-7

#### Semester I

+ TECA 1311 Introduction to Early Childhood Education	3
+ TECA 1303 Family and Community	3
+ TECA 1318 Nutrition, Health, and Safety	3
+ TECA 1354 Child Growth and Development	3
+ CDEC 1359 Children with Special Needs	3
ENGL 1301 English Composition I	3
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	18

#### Semester II

+ CDEC 1413 Curriculum Resources for Early Childhood Programs	4
+ CDEC 1419 Child Guidance	4
+ CDEC 2341 The School Age Child	3
+ CDEC 1166 Practicum I–Child Development and Early Childhood	1
+ CDEC 1392 Special Topics in Child Development	3
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	15

#### Semester III

+ CDEC 1456 Emergent Literacy for Early Childhood	4
+ CDEC 1321 The Infant and Toddler OR	3-4
+ CDEC 1458 Creative Arts for Early Childhood	
+ CDEC 2326 Administration of Programs for Children	3
+ CDEC 1457 Math & Science for Early Childhood	4
PSYC 2301 Introduction to Psychology	3
	-----
	17-18

#### Semester IV

+# CDEC 2166 Practicum II–Child Development and Early Childhood	1
+ CDEC 1394 Special Topics in Early Childhood	3
SPCH 1318 Interpersonal Communication	3
+ Humanities/Fine Arts <sup>1</sup>	3
+ MATH 1314 College Algebra OR	3
+ MATH 1332 College Mathematics	
	-----
	13
	-----
<b>TOTALS</b>	<b>69-71</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Must be selected from the following: ARTS 1303, ARTS 1304, DANC 2303, HUMA 1301, HUMA 1315, MUSI 1306, PHIL 2306.

## Child Development

### Certificate

The Child Development Certificate does not require the TASP test, but does have special admission requirements. Please see the information provided in the beginning of the Child Development Section, in this catalog, on Special Admission Requirements for All Child Development Students and Special Admissions Requirements for the Academic CDA Training Program, Certificate and Associate Degree.

Semester I	Credit Hours
+ TECA 1303 Family and Community	3
+ TECA 1354 Child Growth and Development	3
+ CDEC 1359 Children with Special Needs	3
+ TECA 1311 Introduction to Early Childhood Education	3
+ TECA 1318 Nutrition, Health, and Safety	3
	-----
	15

#### Semester II

+ CDEC 1413 Curriculum Resources for Early Childhood Programs	4
+ CDEC 1419 Child Guidance	4
+ CDEC 1321 The Infant and Toddler	3
+ CDEC 2341 The School Age Child	3
+# CDEC 1166 Practicum I–Child Development and Early Childhood	1
+# CDEC 1392 Special Topics in Child Development	3
	-----
	18
	-----
<b>TOTALS</b>	<b>33</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

# Child Development

## Child Development

### Enhanced Skills Certificate

This program has special admission requirements. Please see the information provided in the beginning of the Child Development Section, in this catalog, on Special Admission Requirements for All Child Development Students. This program is an advanced certificate designed for Tech Prep students who already have a Tech Prep Associate of Applied Science in Child Development. These courses also meet TDPRS requirements for childcare center directors.

Credit-in-Escrow	Credit Hours
+ CDEC 2328 Administration of Programs for Children II	3
+# CDEC 2386 Internship–Early Childhood Programs	3
+ ENGL 2311 Technical & Business Writing	3
ACNT 1403 Introduction to Accounting I	3
	-----
	12
	-----
<b>TOTALS</b>	<b>12</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Comprehensive CDA Training Program

### Marketable Skills Award

Comprehensive CDA Training Programs does not require TASP. This 3 semester training program provides potential CDA (Child Development Associate) Candidates with the skills, knowledge and required training hours to apply for their CDA Assessment through the Council for Early Childhood Professional Recognition. Students must currently be working with a group of children in the 0-5 age range.

#### Comprehensive CDA Training:

CDEC 1417 Child Development Associate Training I	4
+ CDEC 2422 Child Development Associate Training II	4
+ CDEC 2424 Child Development Associate Training III	4
	-----
	12
	-----
<b>TOTALS</b>	<b>12</b>

+ Prerequisites: See Course Descriptions.

## Academic CDA Training Program

### Institutional Certificate

The Academic CDA Training Program does not require TASP, but does have special admissions requirements. Please see the information provided in the beginning of the Child Development Section, in this catalog, on Special Admission Requirements for All Child Development Students and Special Admissions Requirements for the Academic CDA Training Program, Certificate and Associate Degree.

This program is designed for early childhood teachers currently working with young children who plan to apply for the CDA Assessment through the Council for Early Childhood Professional Recognition independent of our Comprehensive CDA Training. The following child development courses will provide the documentation of required training hours. Students completing this option may apply for the Professional Recognition Award through the Child Development Department.

Academic CDA Training	Credit Hours
+ TECA 1311 Introduction to Early Childhood Education	3
+ TECA 1354 Child Growth and Development	3
+ TECA 1303 Family and Community	3
+ CDEC 1419 Child Guidance OR	4
+ CDEC 1413 Curriculum Resources for Early Childhood Programs	4
	-----
	13
	-----
<b>TOTALS</b>	<b>13</b>

+ Prerequisites: See Course Descriptions.

## Professional Recognition For Caregivers

### Institutional Certificate

This award is designed to provide students employed in the care of young children with a special recognition. This award will meet the Texas Department of Protective and Regulatory Services requirement of 12 child development credit hours under option 6 for Director Qualifications. To apply for this award, students must have completed 12 credit hours in Child Development at Austin Community College with grades of B or above. Contact the Child Development Department at 223-5201 to apply for the award.

# Commercial Music Management

# Computer Information Technology

## COMMERCIAL MUSIC MANAGEMENT

### Commercial Music Management

Associate of Applied Science Degree

Semester I		Credit Hours
ENGL 1301	English Composition I	3
MUSI 1301	Music Fundamentals	3
	Computer Science Elective	3-4
MUSB 1305	Survey of the Music Business	3
	Restricted Elective <sup>1</sup>	3
		-----
		15-16
Semester II		
+ MATH 1324	Mathematics for Business and Economics OR	3
+ MATH 1332	College Mathematics Social and Behavioral Science <sup>2</sup>	3
BUSG 2309	Small Business Management	3
MUSB 1301	Legal Aspects of the Entertainment Industry	3
	Restricted Elective <sup>1</sup>	3
MUSC 1303	History of Popular Music	3
		-----
		18
Semester III		
+ ENGL 2311	Technical & Business Writing OR	3
+ POFT 1302	Business Communications I	
ACCT 2301	Principles of Financial Accounting	3
MRKG 1311	Principles of Marketing	3
	Restricted Elective <sup>1</sup>	3
	Restricted Elective <sup>1</sup>	3
	Oral Communication <sup>3</sup>	3
		-----
		18
Semester IV		
+# MUSB 2386	Internship–Music Business Management and Merchandising	3
	Restricted Elective <sup>1</sup>	3
	Restricted Elective <sup>1</sup>	3
	Restricted Elective <sup>1</sup>	3
	Unrestricted Elective	3
		-----
		15
		-----
<b>TOTALS</b>		<b>66-67</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup>Restricted Electives (at least 5 of 7 must have MUSB, MUSC or MUSP prefixes) Choose from below:

MUSB 1341, 1391, 2301, 2305, 2309, 2345

MUSC 1213, 1303, 1311, 1321, 1325, 1327, 1331, 1333, 2213, 2311, 2319, 2345, 2355, 2427, 2447, 2448

MUSI 1116, 1117, 1181, 1182, 1183, 1192, 1306, 1311, 1312, 1602

MUSP 1142, 1146, 1148, 1150, 1151, 1329

Applied Music Courses, Any Music Ensemble (MUEN)

BUSI 1311, BMGT 1302, BMGT 1347

COMM 2327, 2331, 1336, 1337

<sup>2</sup>Select from Social and Behavioral Science section of the General Education Course list.

<sup>3</sup>Select from Oral Communications section of the General Education Course list.

## COMPUTER INFORMATION TECHNOLOGY

### Computer Programming

Associate of Applied Science Degree

The Associate of Applied Science degree in Computer Information Systems (Computer Programming) includes courses from the Arts and Sciences Curricula, as well as a wide array of computer courses designed to train the student for an entry-level programming position.

Semester I		Credit Hours
+ MATH 1324	Mathematics for Business and Economics	3
ENGL 1301	English Composition I	3
COSC 1300	Introduction to Computing	3
COSC 1315	Fundamentals of Programming Social and Behavioral Science <sup>1</sup>	3
		-----
		15
Semester II		
+ MATH 1324	Mathematics <sup>2</sup>	3-4
+ ITSC 1325	Personal Computer Hardware	3
+ ITSE 2309	Introduction to Database Programming: Oracle	3
+ COSC 1320	C++ Programming OR	3
+ ITSE 2321	Introduction to Object-Oriented Programming (Java)	
+ ITSE 2321	Computer Course <sup>3</sup>	3
		-----
		15-16
Semester III		
ACCT 2301	Principles of Financial Accounting	3
+ ITSC 1327	Multi-user Operating Systems	3
	Oral Communication <sup>4</sup>	3
+ ITSC 1327	Programming Elective I or II <sup>5/6</sup>	3-4
+ ITSC 1327	Programming Elective I or II <sup>5/6</sup>	3-4
		-----
		15-17
Semester IV		
+# ITSE 1450	System Analysis and Design	4
+ COSC 2425	Computer Organization and Machine Language — PC Assembly	4
+ ITSC 2364	Practicum–CIS, General OR	3-4
+ ITSC 2364	Programming Elective II <sup>6</sup>	
+ ITSC 2364	Programming Elective II <sup>6</sup>	3-4
+ ITSC 2364	Humanities <sup>7</sup>	3
		-----
		17-19
		-----
<b>TOTALS</b>		<b>62-67</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup>Select from Social/Behavioral Science section of the General Education Course list.

<sup>2</sup>Math Elective - MATH 1342, MATH 1314, MATH 1425 are recommended.

<sup>3</sup>Select from the following courses: ITSC 1309, ITSW 1304, or ITNW 1337.

<sup>4</sup>Select from Oral Communication section of the General Education Course list.

<sup>5</sup>Programming Elective I: Must be selected from this list: COSC 1320, ITSE 1344, ITSE 1345, ITSE 2321

# Computer Information Technology

<sup>6</sup> Programming Elective II: Must be selected from the following list: COSC 2415, COSC 2425, ITSE 2317, ITSE 2339, ITSE 2349, ITSE 2357, ITSE 2359, ITSE 2371, ITSE 2431, ITSE 2437, ITSE 2451, INEW 2338.

<sup>7</sup> Select from Humanities/Fine Arts section of the General Education Course list.

## Computer Information Technology Database

### Certificate

Semester I			Credit Hours
COSC	1300	Introduction to Computing	3
ITSE	1331	Introduction to Visual BASIC Programming .NET OR	3
COSC	1315	Fundamentals of Programming	
+	ITSE	2309 Introduction to Database Programming: Oracle	3
			-----
			9
Semester II			
+	ITNW	1325 Fundamentals of Networking	3
+	ITSE	1345 Introduction to Oracle SQL and PL/SQL	3
+	ITSE	1344 Mastering MS Visual BASIC Development .NET	3
			-----
			9
Semester III			
+	ITSE	2356 Oracle Database Administration I	3
+	ITSE	2349 Advanced Visual BASIC Programming .NET	3
+#	ITSE	1450 System Analysis and Design	4
			-----
			10
<b>TOTALS</b>			<b>28</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Computer Programming

### C++ TRACK Certificate

Semester I			Credit Hours
COSC	1300	Introduction to Computing	3
+	ITNW	1325 Fundamentals of Networking	3
+	ITSE	2309 Introduction to Database Programming: Oracle	3
COSC	1315	Fundamentals of Programming	3
			-----
			12

### Semester II

+	ITSC	1327 Multi-user Operating Systems OR	3
+	ITSC	1307 UNIX Operating System I	
+	ITSE	1345 Introduction to Oracle SQL and PL/SQL	3
+	COSC	1320 C++ Programming	3
			-----
			9

### Semester III

+	ITSE	1450 System Analysis and Design	4
+#	ITSE	2431 Advanced C++ Programming	3-4
			-----
			7-8

### TOTALS

**28-29**

+ Prerequisites: See Course Descriptions.

# Capstone course

## Computer Programming

### JAVA TRACK Certificate

Semester I			Credit Hours
COSC	1300	Introduction to Computing	3
+	ITNW	1325 Fundamentals of Networking	3
+	ITSE	2309 Introduction to Database Programming: Oracle	3
COSC	1315	Fundamentals of Programming OR	3-4
ITSE	1411	Web Page Programming	
			-----
			12-13
Semester II			
+	ITSC	1327 Multi-user Operating Systems OR	3
+	ITSC	1307 UNIX Operating System I	
+	ITSE	1345 Introduction to Oracle SQL and PL/SQL	3
+	ITSE	2321 Introduction to Object-Oriented Programming (Java)	3
			-----
			9
Semester III			
+	ITSE	1450 System Analysis and Design	4
+#	ITSE	2317 Java Programming (Intermediate)	3
			-----
			7
<b>TOTALS</b>			<b>28-29</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

# Computer Information Technology

## Local Area Network Systems

### NETWORK ADMINISTRATION Associate of Applied Science Degree Tech Prep

Austin Community College's Local Area Network is a Tech Prep program participant. High School students may receive college credit for approved courses taken during high school.

<b>Semester I</b>		<b>Credit Hours</b>
+	ITNW 1325 Fundamentals of Networking	3
	COSC 1300 Introduction to Computing	3
	COSC 1315 Fundamentals of Programming OR	3-4
	ITSE 1331 Introduction to Visual BASIC Programming .NET OR	
	ITSE 1411 Web Page Programming	
	ENGL 1301 English Composition I	3
+	MATH 1324 Mathematics for Business and Economics	3
		-----
		15-16
<b>Semester II</b>		
+	ITMC 1342 Implementing Microsoft Windows 2000 Network Infrastructure	3
+	ITSC 1325 Personal Computer Hardware	3
+	ITSC 1307 UNIX Operating System I	3
+	Computer Course <sup>1</sup>	3
	SPCH 1311 Introduction to Speech Communication	3
+	ITSE 2309 Introduction to Database Programming: Oracle OR	3
	Computer Info Tech/Computer Science Elective <sup>2</sup>	
		-----
		18
<b>Semester III</b>		
+	ITMC 1319 Installing and Administering Windows 2000	3
+	ITNW 2405 Network Administration for Novell NetWare	4
	Computer Info Tech/Computer Science Elective <sup>2</sup>	
+	ITSC 2337 UNIX Operating Systems II OR	3
+	Programming Elective <sup>3</sup>	3-4
+	ITCC 1306 Basic Router Configuration: Cisco 2	3
		-----
		16-17
<b>Semester IV</b>		
+	ITNW 2317 Network Security	3
+#	ITSE 1450 System Analysis and Design	4
+	ITSC 2364 Practicum-CIS, General OR	3
+	Computer Info Tech/Computer Science Elective <sup>2</sup>	
	Social and Behavioral Science <sup>4</sup>	3
+	Humanities <sup>5</sup>	3
		-----
		16
<b>TOTALS</b>		<b>65-67</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup>Select from the following: ITSW 1304, ITSC 1309, or ITNW 1337.

<sup>2</sup> Computer Information Technology/Computer Science Elective - Must be IT or COSC advanced course selected in accordance with career objectives and subject to department approval.

<sup>3</sup> Programming Elective I-Must be selected from: COSC 1320, ITSE 1344, ITSE 1345, ITSE 2321.

<sup>4</sup> Select from Social and Behavioral Science section of the General Education Course list.

<sup>5</sup> Select from Humanities/Fine Arts section of the General Education Course list.

## Local Area Network Systems

### NETWORK ADMINISTRATION Certificate

<b>Semester I</b>		<b>Credit Hours</b>
	COSC 1300 Introduction to Computing	3
	COSC 1315 Fundamentals of Programming OR	3-4
	ITSE 1331 Introduction to Visual BASIC Programming .NET OR	
	ITSE 1411 Web Page Programming	
+	ITNW 1325 Fundamentals of Networking	3
		-----
		9-10
<b>Semester II</b>		
+	ITMC 1342 Implementing Microsoft Windows 2000 Network Infrastructure	3
+	ITSC 1325 Personal Computer Hardware	3
+	ITSC 1307 UNIX Operating System I OR	3
+	ITSC 2337 UNIX Operating Systems II	
		-----
		9
<b>Semester III</b>		
+	ITMC 1319 Installing and Administering Windows 2000	3
+#	ITNW 2405 Network Administration for Novell NetWare	4
+	ITCC 1306 Basic Router Configuration: Cisco 2	3
		-----
		10
<b>TOTALS</b>		<b>28-29</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

# Computer Information Technology

## Microcomputer Applications Support

Associate of Applied Science Degree

<b>Semester I</b>		<b>Credit Hours</b>
COSC 1300	Introduction to Computing	3
COSC 1315	Fundamentals of Programming OR	3
ITSE 1331	Introduction to Visual BASIC Programming .NET	
<b>ENGL 1301</b>	English Composition I	3
ACCT 2301	Principles of Financial Accounting Mathematics <sup>1</sup>	3
		-----
		15
<b>Semester II</b>		
+	Computer Info Tech/Computer Science Elective <sup>2</sup>	3-4
+	Programming Elective I <sup>3</sup>	3-4
+	ITSW 1307 Introduction to Database	3
+	ITSC 1325 Personal Computer Hardware Social and Behavioral Science <sup>4</sup>	3
		-----
		15-17
<b>Semester III</b>		
+	ITSW 1304 Introduction to Spreadsheets	3
+	ITSC 1327 Multi-user Operating Systems	3
+	ITSE 2309 Introduction to Database Programming: Oracle	3
+	Computer Info Tech/Computer Science Elective <sup>2</sup>	3-4
	Oral Communication <sup>5</sup>	3
		-----
		15-16
<b>Semester IV</b>		
+	ITNW 1325 Fundamentals of Networking	3
+#	ITSE 1450 System Analysis and Design	4
+	ITSE 1345 Introduction to Oracle SQL and PL/SQL	3
	Unrestricted Elective	3
+	Humanities/Fine Arts <sup>6</sup>	3
		-----
		16
<b>TOTALS</b>		<b>61-64</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Mathematics Elective - Must be selected from MATH 1332, MATH 1342, MATH 1324, or MATH 1314.

<sup>2</sup> Computer Info Tech/Computer Science Elective - Should be selected in accordance with career objectives and is subject to departmental approval.

<sup>3</sup> Programming Elective I - Must be selected from the following: COSC 1320, ITSE 1344, ITSE 1345, ITSE 2321.

<sup>4</sup> Select from Social and Behavioral Science section of the General Education Course list.

<sup>5</sup> Select from Oral Communications section of the General Education Course list.

<sup>6</sup> Select from Humanities/Fine Arts section of the General Education Course list.

## Web Developer Specialist

Certificate

<b>Semester I</b>		<b>Credit Hours</b>
COSC 1300	Introduction to Computing OR	3
COSC 1301	Personal Computing	
+	ITNW 1337 Introduction to the Internet	3
+	ITSC 1313 Internet/Web Page Development	3
		-----
		9
<b>Semester II</b>		
#	ITSE 1411 Web Page Programming	4
	ARTC 1402 Digital Imaging I	4
		-----
		8
<b>TOTALS</b>		<b>17</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## COMPUTER SCIENCE

### Computer Science

#### Associate of Science Degree

The Associate of Science degree in Computer Science is designed for students planning to continue their computer studies in a four-year institution.

Semester I		Credit Hours
+	<b>MATH 2413</b> Calculus I	4
	<b>ENGL 1301</b> English Composition I	3
	<b>COSC 1315</b> Fundamentals of Programming	3
	<b>HIST 1301</b> United States History I	3
	<b>GOVT 2305</b> United States Government	3
		-----
		16
Semester II		Credit Hours
+	<b>MATH 2414</b> Calculus II	4
+	<b>ENGL 1302</b> English Composition II Oral Communication <sup>1</sup>	3 3
	<b>HIST 1302</b> United States History II	3
+	<b>COSC 1320</b> C++ Programming	3
		-----
		16
Semester III		Credit Hours
+	<b>MATH 2415</b> Calculus III	4
+	<b>COSC 2415</b> Data Structures	4
+	Natural Science <sup>2</sup>	3-4
	Humanities <sup>3</sup>	3
	Visual and Performing Arts <sup>4</sup>	3
		-----
		17-18
Semester IV		Credit Hours
	<b>GOVT 2306</b> Texas State and Local Government	3
+	<b>COSC 2425</b> Computer Organization and Machine Language-PC Assembly	4
+	Natural Science <sup>2</sup>	3-4
	Humanities <sup>3</sup>	3
		-----
		13-14
<b>TOTALS</b>		<b>62-64</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup>Select any Speech course from the Communications section of the Core Curriculum Course list.

<sup>2</sup>Science Elective-Physical and/or biological science (BIOL, CHEM, GEOL, PHYS). Both Science courses must be from the same discipline.

<sup>3</sup>Select from Humanities section of the Core Curriculum Course list.

<sup>4</sup>Select from Visual and Performing Arts section of the Core Curriculum Course list.

## CREATIVE WRITING

### Creative Writing

#### Associate of Arts Degree

Semester I		Credit Hours
	<b>ENGL 1301</b> English Composition I	3
	<b>HIST 1301</b> United States History I Foreign Language <sup>1</sup>	3 5
	<b>SPCH 1315</b> Fundamentals of Public Speaking	3
	<b>COSC 1301</b> Personal Computing	3
		-----
		17
Semester II		Credit Hours
+	<b>ENGL 1302</b> English Composition II	3
	<b>HIST 1302</b> United States History II	3
+	Foreign Language <sup>1</sup>	5
	Creative Writing <sup>2</sup>	3
	Restricted Elective (Area A/B) <sup>3</sup>	3
		-----
		17
Semester III		Credit Hours
	<b>GOVT 2305</b> United States Government	3
+	Mathematics <sup>4</sup>	3
+	Fine Arts/Humanities/Lit Elective <sup>5</sup>	3
	Creative Writing <sup>2</sup>	3
	Restricted Elective (Area A/B) <sup>6</sup>	4
+	Natural Science <sup>7</sup>	3-4
		-----
		19-20
Semester IV		Credit Hours
	<b>GOVT 2306</b> Texas State and Local Government	3
+	Natural Science <sup>7</sup>	3
	Creative Writing <sup>2</sup>	3
+	<b>ENG 0021</b> Written Performance Lab <sup>8</sup>	1
+	<b>ENG 2673</b> Writing Practice/Internship	3
	<b>SOCI 1301</b> Introduction to Sociology <sup>9</sup>	3
		-----
		16
<b>TOTALS</b>		<b>69-70</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup>Foreign Language hours must be in the same language.

<sup>2</sup>ENGL 2308 must be taken with the performance lab (select from ENG 0021).

<sup>3</sup>The second semester restricted elective must be chosen from the following list: DRAM 2366, any ENGL 2307, or COMM 2311.

<sup>4</sup>Select from Mathematics section of the Core Curriculum Course list.

<sup>5</sup>Humanities/Fine Arts/Literature electives must be taken in the Creative Writing Area. Students may also substitute the Visual and Performing Arts requirement of the Core Curriculum. Creative Writing courses include: ENGL 2307, SPAN 2312, ENGL 2308, ENG 0021, ENG 2673.

<sup>6</sup>Select from course work for program.

Area 'A' courses include: COMM 2339 or DRAM 2366.

Area 'B' courses include: ENGL 2307, SPAN 2389, ENGL 2308, ENG 0021, COMM 2311, ENG 2673.

<sup>7</sup>Select from Natural Science section of the Core Curriculum Course list.

<sup>8</sup>Minimum of 1 hour of written performance lab required for major.

<sup>9</sup>Or any 3 hours from Other Social and Behavioral Sciences section of the Core Curriculum Course list.

# Criminal Justice

## CRIMINAL JUSTICE

The Associate of Applied Science degree in Criminal Justice includes courses in the Arts & Sciences curriculum as well as a wide array of Criminal Justice courses designed to prepare the student for further attainment of their educational goals and/or employment within the Criminal Justice System.

In order to graduate and receive an endorsement to take the peace officer licensing examination students enrolled under the certificate plan titled "Texas Peace Officer Sequence" must successfully pass a comprehensive examination during the last semester of their program. This exam will be prepared in accordance with the guidelines of the Texas Higher Education Coordinating Board (THECB) and will serve as the "capstone experience" for the certificate. Students should contact the CRJ Program Coordinator to obtain exam dates and locations. Students beginning the Texas Peace Officer Certificate Program after March 1, 2002 must have at least an Associate Degree in order to receive endorsement to take the TCLEOSE peace officer licensing examination. (This is by TCLEOSE rule effective March 1, 2002.) Note: Students that have been continuously enrolled in the "Texas Peace Officer Certificate" before March 1, 2002 will be able to continue under the old plan and will not be required to have completed an associates degree before receiving an endorsement from the CRJ Department Chair.

Each degree plan is also required by the THECB to contain a "capstone experience." Students satisfy this requirement for the AAS Criminal Justice/Law Enforcement degree plan by taking CRIJ 2328 Police Systems and Practices and by taking CRIJ 2313 Correctional Systems and Practices in the AAS Criminal Justice/ Corrections degree plan.

Commissioned peace officers may be granted up to thirteen credit hours for completion of the Texas Commission on Law Enforcement Officer Standards and Education Basic Peace Officer Course. Licensed county jail officers may obtain four credit hours provided they have completed the 80 contact hour TCLEOSE County Correctional Officer Course. Additionally, students that have attended a high school tech-prep program articulated with Austin Community College will be eligible to transfer approved courses to ACC. Students should contact the CRJ Program Coordinator to obtain information on how to receive these credits.

## Corrections

### Associate of Applied Science Degree

The corrections emphasis includes elements of juvenile procedures, probation and parole, and institutional and community-based corrections.

			<b>Credit Hours</b>
<b>Semester I</b>			
CRIJ	1301	Introduction to Criminal Justice	3
CRIJ	1307	Crime in America	3
<b>ENGL</b>	<b>1301</b>	English Composition I	3
<b>SOCI</b>	<b>1301</b>	Introduction to Sociology	3
<b>PSYC</b>	<b>2301</b>	Introduction to Psychology	3
			-----
			15
<b>Semester II</b>			
CRIJ	1310	Fundamentals of Criminal Law	3
CRIJ	1306	Court Systems and Practices	3
<b>GOVT</b>	<b>2306</b>	Texas State and Local Government	3
<b>HIST</b>	<b>1301</b>	United States History I	3
CRIJ	1313	Juvenile Justice System	3
			-----
			15
<b>Semester III</b>			
CJCR	1304	LE-Probation and Parole	3
CJSA	1348	Ethics in Criminal Justice	3
+		Mathematics <sup>1</sup>	3
<b>HIST</b>	<b>1302</b>	United States History II	3
<b>GOVT</b>	<b>2305</b>	United States Government	3
			-----
			15
<b>Semester IV</b>			
CRIJ	2301	Community Resources in Corrections	3
<b>SPCH</b>	<b>1315</b>	Fundamentals of Public Speaking	3
# CRIJ	2313	Correctional Systems and Practices	3
COSC	1301	Personal Computing	3
+		Humanities/Fine Arts <sup>2</sup>	3
		Unrestricted Elective	3
			-----
			18
<b>TOTALS</b>			<b>63</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Computational Skills section of the General Education Course list.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list.

# Criminal Justice

## Law Enforcement

### Associate of Applied Science Degree

The law enforcement emphasis includes elements of criminal law, police systems, court systems, criminal procedure, and criminal investigation.

<b>Semester I</b>		<b>Credit Hours</b>
CRIJ 1301	Introduction to Criminal Justice	3
CRIJ 1307	Crime in America	3
ENGL 1301	English Composition I	3
SOCI 1301	Introduction to Sociology	3
PSYC 2301	Introduction to Psychology	3
		15
<b>Semester II</b>		
CRIJ 1310	Fundamentals of Criminal Law	3
CRIJ 1306	Court Systems and Practices	3
GOVT 2306	Texas State and Local Government	3
HIST 1301	United States History I	3
CRIJ 1313	Juvenile Justice System	3
		15
<b>Semester III</b>		
CJSA 1348	Ethics in Criminal Justice	3
CRIJ 2323	Legal Aspects of Law Enforcement	3
+	Mathematics <sup>1</sup>	3
HIST 1302	United States History II	3
GOVT 2305	United States Government	3
		15
<b>Semester IV</b>		
CRIJ 2314	Criminal Investigation	3
SPCH 1315	Fundamentals of Public Speaking	3
# CRIJ 2328	Police Systems and Practices	3
COSC 1301	Personal Computing	3
+	Humanities/Fine Arts <sup>2</sup>	3
	Unrestricted Elective	3
		18
<b>TOTALS</b>		<b>63</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Computational Skills section of the General Education Course list.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list.

## Texas Peace Officer Sequence

### Certificate

This program is the academic equivalent to the "Basic Peace Officer Training Course" required by the Texas Commission on Law Enforcement Officer Standards and Education (TCLEOSE) for all Texas Peace Officers.

Completion of at least 12 semester hours of the "Law Enforcement Core Curriculum" is required before students are eligible to be admitted to the "Peace Officer Sequence" classes. CRJ Program Coordinator approval is required to take each of the "Peace Officer Sequence" classes. Completion of all 21 semester hours of the "Core Curriculum" and the 13 semester hours of the "Peace Officer Sequence" courses are required before the CRJ Program Coordinator will issue students an "Academic Endorsement of Eligibility."

Students that have completed the program and have been issued an "endorsement" are eligible to take the "Peace Officer Licensing Examination" which is prepared and administered by TCLEOSE.

<b>Core Curriculum</b>		<b>Credit Hours</b>
CRIJ 1301	Introduction to Criminal Justice	3
CRIJ 1307	Crime in America	3
CRIJ 1310	Fundamentals of Criminal Law	3
CRIJ 1306	Court Systems and Practices	3
CRIJ 2323	Legal Aspects of Law Enforcement	3
CRIJ 2314	Criminal Investigation	3
# CRIJ 2328	Police Systems and Practices	3
		21
<b>Peace Officer Sequence</b>		
+ CJLE 2420	Texas Peace Officer Procedures <sup>1</sup>	4
+ CJLE 2421	Texas Peace Officer Law <sup>1</sup>	4
+ CJLE 2522	Texas Peace Officer Skills <sup>1</sup>	5
		13
<b>TOTALS</b>		<b>34</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Requires Departmental approval.

# Culinary Arts

## CULINARY ARTS

### Culinary Arts

#### Associate of Applied Science Degree

<b>Semester I</b>		<b>Credit Hours</b>
RSTO 1317	Nutrition for the Food Service Professional	3
FDNS 1301	Introduction to Foods	3
IFWA 1213	Sanitation and Safety	2
HAMG 1321	Introduction to Hospitality Industry	3
+ MATH 1332	College Mathematics	3
IFWA 1217	Food Production and Planning (Math)	2
		16
<b>Semester II</b>		
+ CULA 1301	Basic Food Preparation	3
+ PSTR 1301	Fundamentals of Baking	3
+ CULA 1341	American Regional Cuisine	3
HAMG 1324	Hospitality Human Resources Management	3
+ IFWA 1319	Hotel, Restaurant, and Institutional Meat	3
		15
<b>Semester III</b>		
ENGL 1301	English Composition I	3
DITA 2331	Purchasing, Receiving and Storage of Food	3
+ CULA 1391	Special Topics in Culinary Arts/Chef Training–Meat Preparation and Cooking	3
		9
<b>Semester IV</b>		
+ CULA 2336	Charcuterie	3
HAMG 1219	Computers in Hospitality	2
RSTO 1304	Dining Room Service	3
	Department Elective <sup>1</sup>	3
+	Humanities/Fine Arts <sup>2</sup>	3
		14
<b>Semester V</b>		
+ CULA 1345	International Cuisine	3
	Restricted Elective <sup>1</sup>	3
	Oral Communication <sup>3</sup>	3
	Social and Behavioral Science <sup>2</sup>	3
+# RSTO 2264	Culinary Practicum	2
		14
<b>TOTALS</b>		<b>68</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Department Electives are restricted to the following: CULA 2301, RSTO 1319 (Must be 21 years old and receive department approval to take class), IFWA 2343, PSTR 2331, CULA 2302, Any 3-hour HAMG or TRVM not presently in the degree plan, Special Topics in CULA, Special Topics in HAMG, Special Topics in TRVM, Business Elective.

<sup>2</sup> Select one course from Visual and Performing Arts, Humanities, and Social and Behavioral Sciences sections of the General Education Course list.

<sup>3</sup> Select from Oral Communications section of the General Education Course list.

## Culinary Arts

### Basic Certificate

<b>Semester I</b>		<b>Credit Hours</b>
RSTO 1317	Nutrition for the Food Service Professional	3
FDNS 1301	Introduction to Foods	3
IFWA 1213	Sanitation and Safety	2
HAMG 1321	Introduction to Hospitality Industry	3
IFWA 1217	Food Production and Planning (Math)	2
HAMG 1324	Hospitality Human Resources Management	3
		16
<b>Semester II</b>		
+ CULA 1301	Basic Food Preparation	3
+ PSTR 1301	Fundamentals of Baking	3
DITA 2331	Purchasing, Receiving and Storage of Food	3
+# CULA 1341	American Regional Cuisine	3
+ CULA 1391	Special Topics in Culinary Arts/Chef Training–Meat Preparation and Cooking	3
+ IFWA 1319	Hotel, Restaurant, and Institutional Meat	3
		18
<b>TOTALS</b>		<b>34</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Culinarian

### Certificate

<b>Semester I</b>		<b>Credit Hours</b>
FDNS 1301	Introduction to Foods	3
IFWA 1213	Sanitation and Safety	2
IFWA 1217	Food Production and Planning (Math)	2
+ CULA 1301	Basic Food Preparation	3
		10
<b>Semester II</b>		
+ CULA 1391	Special Topics in Culinary Arts/Chef Training–Meat Preparation and Cooking	3
+ IFWA 1319	Hotel, Restaurant, and Institutional Meat	3
+ PSTR 1301	Fundamentals of Baking	3
+# CULA 1341	American Regional Cuisine	3
		12
<b>TOTALS</b>		<b>22</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## DANCE

### Dance

#### Associate of Arts Degree

The Associate of Arts degree provides students with the first two years of college Dance Education.

Semester I		Credit Hours
ENGL 1301	English Composition I	3
HIST 1301	United States History I	3
	Foreign Language <sup>1</sup>	5
DANC 2303	History and Appreciation of Dance	3
+ DANC 2245	Dance Improvisation I	2
DANC 1245	Modern Dance I	2
		-----
		18
Semester II		
+ ENGL 1302	English Composition II	3
HIST 1302	United States History II	3
+	Foreign Language	5
+ DANC 2146	Dance Improvisation II	1
+ DANC 1246	Modern Dance II	2
	Social and Behavioral Science <sup>2</sup>	3
		-----
		17
Semester III		
GOVT 2305	United States Government	3
+	Literature Course <sup>3</sup>	3
+	Natural Science <sup>4</sup>	3
+ DANC 1212	Practicum/Principles of Choreography	2
DANC 1251	Dance Performance Workshop	2
	Humanities II <sup>5</sup>	3
SPCH 1311	Introduction to Speech Communication	3
		-----
		19
Semester IV		
GOVT 2306	Texas State and Local Government	3
+ DANC 1201	Dance Composition	2
DANC 1251	Dance Performance Workshop	2
	Dance Elective <sup>6</sup>	1-2
+ MATH 1332	College Mathematics	3
DANC 2325	Anatomy for Dancers	3
+	Natural Science <sup>4</sup>	3
		-----
		17-18
		-----
<b>TOTALS</b>		<b>71-72</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Foreign Language hours must be in the same language. French or Spanish is recommended.

<sup>2</sup> Select from Social and Behavioral Sciences section of the Core Curriculum Course list.

<sup>3</sup> The literature course must be chosen from the following: ENGL 2322, ENGL 2327, ENGL 2328, ENGL 2333, ENGL 2342, ENGL 2343.

<sup>4</sup> Select from Natural Science section of the Core Curriculum Course list.

<sup>5</sup> Select from Humanities II section of the Core Curriculum Course list.

<sup>6</sup> Dance Electives: DANC 1141, DANC 1142, DANC 1245, DANC 1246, DANC 1147, DANC 1148.

<sup>7</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

## DENTAL HYGIENE

### Dental Hygiene

#### Associate of Applied Science Degree

Pending approval by the American Dental Association Commission on Dental Accreditation.

Upon successful completion of the curriculum graduates will be awarded the Associate of Applied Science Degree and will be eligible to take national and regional credentialing examinations to become registered and licensed dental hygienists.

Prerequisites		Credit Hours
BIOL 2401	Anatomy & Physiology I <sup>1/2</sup>	4
+ BIOL 2402	Anatomy and Physiology II <sup>1/2</sup>	4
+ CHEM 1405	Introduction to Chemistry <sup>3</sup>	4
ENGL 1301	English Composition I	3
		-----
		15
Semester I		
BIOL 2420	Introduction to Microbiology <sup>4/2</sup>	4
+ DHYG 1227	Preventive Dental Hygiene Care	2
+ DHYG 1301	Orofacial Anatomy, Histology and Embryology	3
+ DHYG 1304	Dental Radiology	3
+ DHYG 1331	Preclinical Dental Hygiene	3
		-----
		15
Semester II		
+ DHYG 1207	General and Dental Nutrition	2
+ DHYG 1319	Dental Materials	3
+ HPRS 2200	Pharmacology for Health Professions <sup>5/2</sup>	2
+ MATH 1342	Elementary Statistics	3
+ DHYG 1260	Clinic I, Introductory Clinical	2
		-----
		12
Semester III		
PSYC 2301	Introduction to Psychology	3
SPCH 1315	Fundamentals of Public Speaking <sup>6</sup>	3
		-----
		6
Semester IV		
+ DHYG 1239	General and Oral Pathology	2
+ DHYG 1311	Periodontology	3
+ DHYG 1315	Community Dentistry	3
+ DHYG 2201	Contemporary Dental Hygiene Care I	2
+ DHYG 2261	Clinic II, Intermediate Clinical	2
		-----
		12
Semester V		
+ DHYG 2362	Clinic III, Advanced Clinical	3
+# DHYG 1123	Dental Hygiene Practice	1
+ DHYG 2231	Contemporary Dental Hygiene Care II	2
SOCI 1301	Introduction to Sociology	3
	Humanities/Fine Arts Elective	3
		-----
		12
		-----
<b>TOTALS</b>		<b>72</b>

# Digital Publishing and Graphics Technology

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> BIOL 2304 with BIOL 2101 and BIOL 2305 with BIOL 2102 may be substituted for BIOL 2401 and 2402.

<sup>2</sup> Must be taken within 5 years.

<sup>3</sup> CHEM 1411 may be substituted for CHEM 1405.

<sup>4</sup> BIOL 2421 may be substituted for BIOL 2420.

<sup>5</sup> HPRS 2300 may be substituted for HPRS 2200.

<sup>6</sup> SPCH 1311 or SPCH 1321 may be substituted for SPCH 1315.

## DIGITAL PUBLISHING AND GRAPHICS TECHNOLOGY

The Digital Publishing Department provides entry-level skills in the job titles of Desktop Publisher, Offset press Operator, Preflight Specialist, Scanner Operator, and Applications Specialist. The computer software we give instruction in is Adobe Photoshop, Illustrator, and QuarkXPress. Each of these is currently being used in the industry. Intermediate and advanced courses in these areas allow for greater skill development for both students and employed members of the printing/publishing industry.

### Printing and Desktop Publishing Production

Associate of Applied Science Degree

Semester I	Credit Hours
ARTC 1413 Digital Publishing I <sup>6</sup>	4
Oral Communications <sup>2</sup>	3
+ Mathematics <sup>1</sup>	3
Social and Behavioral Science <sup>4</sup>	3
GRPH 1459 Object Oriented Computer Graphics	4
	-----
	17
<b>Semester II</b>	
+ GRPH 1409 Press Operations I	4
+ ARTC 2413 Digital Publishing II <sup>7</sup>	4
ARTC 1402 Digital Imaging I <sup>8</sup>	4
ENGL 1301 English Composition I	3
	-----
	15
<b>Semester III</b>	
+ GRPH 2436 Prepress Techniques	4
+ GRPH 2441 Electronic Publishing III	4
+ GRPH 1457 Digital Imaging II	4
Restricted Elective <sup>5</sup>	4
	-----
	16
<b>Semester IV</b>	
Restricted Elective <sup>5</sup>	4
+ GRPH 1494 Special Topics in Printing Press Operator	4
+ GRPH 1432 Electronic Imaging System	4
+ Humanities/Fine Arts <sup>3</sup>	3
+# GRPH 1367 Practicum-Graphic & Printing Equipment Operator	3
	-----
	18
	-----
<b>TOTALS</b>	<b>66</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select any Math course from Computation Skills section of the General Education Course List.

<sup>2</sup> Select any Speech course from Communications section of the General Education Course List.

<sup>3</sup> Select from the following Humanities and Fine Art courses: ARTS 1301, ARTS 1303, ARTS 1304, HUMA 1301, HUMA 1315.

<sup>4</sup> Select from Social Behavioral Science section of the General Education Course List.

<sup>5</sup> Select from the following electives: IMED 1416, IMED 1445, PHTC 1449, PHTC 1445, PHTC 2445, PHTC 2449.

<sup>6</sup> Formerly GRPH 1422 or ARTC 1313.

<sup>7</sup> Formerly GRPH 1454 or ARTC 2313.

<sup>8</sup> Formerly GRPH 1425 or ARTC 2305.

## Printing Prepress and Production

Certificate

Electronic production has become the standard today for creation of newsletters, forms, brochures, books, magazines, flyers, letters and documents of varied subjects. The combined skills learned give the student a needed skill set to succeed in the industry.

Semester I	Credit Hours
GRPH 1459 Object Oriented Computer Graphics	4
ARTC 1413 Digital Publishing I <sup>2</sup>	4
+ GRPH 1409 Press Operations I	4
	-----
	12
<b>Semester II</b>	
+ GRPH 1494 Special Topics in Printing Press Operator	4
+ ARTC 2413 Digital Publishing II <sup>3</sup>	4
ARTC 1402 Digital Imaging I <sup>4</sup>	4
	-----
	12
<b>Semester III</b>	
+ GRPH 1457 Digital Imaging II OR	4
+ GRPH 2441 Electronic Publishing III	4
+ GRPH 1432 Electronic Imaging System	4
# Restricted Elective <sup>1</sup>	4
	-----
	12
<b>Semester IV</b>	
Restricted Elective <sup>1</sup>	4
+# GRPH 2436 Prepress Techniques	4
	-----
	8
	-----
<b>TOTALS</b>	<b>44</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from the following electives: IMED 1416, IMED 1445, PHTC 1449, PHTC 1445, PHTC 2445, PHTC 2449.

<sup>2</sup> Formerly GRPH 1422 or ARTC 1313.

<sup>3</sup> Formerly GRPH 1454 or ARTC 2313.

<sup>4</sup> Formerly GRPH 1425 or ARTC 2305.

## DRAMA

### Drama

#### Associate of Arts Degree

The Associate of Arts degree provides students with the first of two years of college Drama education.

<b>Semester I</b>		<b>Credit Hours</b>
<b>ENGL 1301</b>	English Composition I	3
<b>HIST 1301</b>	United States History I	3
	Foreign Language <sup>1</sup>	5
<b>DRAM 1310</b>	Introduction to Theatre	3
<b>DRAM 1120</b>	Theatre Workshop	1
	Humanities Elective <sup>2</sup>	3
		-----
		18
<b>Semester II</b>		
<b>+ ENGL 1302</b>	English Composition II	3
<b>HIST 1302</b>	United States History II	3
<b>+</b>	Foreign Language <sup>1</sup>	5
<b>DRAM 1351</b>	Acting I	3
<b>DRAM 1330</b>	Stagecraft OR	3
<b>DRAM 1342</b>	Introduction to Costume	
<b>DRAM 1120</b>	Theatre Workshop	1
		-----
		18
<b>Semester III</b>		
<b>GOVT 2305</b>	United States Government	3
<b>+</b>	Literature <sup>3</sup>	3
<b>DRAM 2336</b>	Voice and Diction <sup>4</sup>	3
<b>+</b>	Mathematics <sup>5</sup>	3
<b>DRAM 1120</b>	Theatre Workshop	1
	Drama Elective <sup>6</sup>	3
<b>+</b>	Natural Science <sup>7</sup>	3-4
		-----
		19-20
<b>Semester IV</b>		
<b>GOVT 2306</b>	Texas State and Local Government	3
<b>+</b>	Natural Science <sup>7</sup>	3-4
<b>COSC 1300</b>	Introduction to Computing OR	3
<b>COSC 1301</b>	Personal Computing	
<b>DRAM 1120</b>	Theatre Workshop OR	1-3
	Drama Elective <sup>6</sup>	
	Social and Behavioral Science <sup>8</sup>	3
		-----
		13-16
		-----
<b>TOTALS</b>		<b>68-72</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Foreign language hours must be in the same language.

<sup>2</sup> Select from 3 hours of Humanities requirement from the Core Curriculum list.

<sup>3</sup> The literature course must be chosen from the following: ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332 ENGL 2333, ENGL 2342, and ENGL 2343.

<sup>4</sup> Students may also choose to substitute the Speech requirement of the Core Curriculum.

<sup>5</sup> The course for the Math requirement may be chosen from the following: MATH 1332, MATH 1342, MATH 1324 or MATH 1314 (depending on math requirements of the four-year institution to which the student will be transferring). Students should first consult with a mathematics advisor.

<sup>6</sup> Drama Electives: Acting II, Stage Make-Up, Stage Costume, Theatre Workshop, and Theatre Practicum.

<sup>7</sup> Select from Natural Science section of the Core Curriculum Course list.

<sup>8</sup> Select from Other Social and Behavioral Sciences section of the Core Curriculum Course list.

## ECONOMICS

### Economics

#### Associate of Arts Degree

This program is designed so that students receiving an Associate of Arts degree in economics at ACC will be prepared to take junior and senior level courses at any four-year college or university. All the courses in this degree plan must be taken and passed in order to earn an A.A. in Economics. The order, given below, in which these courses should be taken, is just a suggestion. Students may take the courses in any order they want to except for those courses that require a course prerequisite (+). The economics department also suggests that ECON 2302 be taken before ECON 2301.

<b>Semester I</b>		<b>Credit Hours</b>
<b>ENGL 1301</b>	English Composition I	3
<b>HIST 1301</b>	United States History I	3
<b>GOVT 2305</b>	United States Government	3
<b>COSC 1300</b>	Introduction to Computing <sup>1</sup>	3
	Foreign Language <sup>2</sup>	5
		-----
		17
<b>Semester II</b>		
<b>+ ENGL 1302</b>	English Composition II	3
<b>HIST 1302</b>	United States History II	3
<b>GOVT 2306</b>	Texas State and Local Government	3
<b>+ MATH 1324</b>	Mathematics for Business and	
	Economics <sup>3</sup>	3
<b>+</b>	Foreign Language <sup>2</sup>	5
		-----
		17
<b>Semester III</b>		
<b>SPCH 1311</b>	Introduction to Speech Communication <sup>4</sup>	3
<b>ECON 2302</b>	Principles of Microeconomics <sup>5</sup>	3
<b>+</b>	Humanities <sup>6</sup>	3
<b>+ MATH 1425</b>	Business Calculus and Applications I <sup>3</sup>	4
<b>+</b>	Natural Science <sup>7</sup>	3-4
		-----
		16-17
<b>Semester IV</b>		
<b>ECON 2301</b>	Principles of Macroeconomics <sup>5</sup>	3
<b>+</b>	Humanities <sup>6</sup>	3
<b>+ MATH 1476</b>	Business Calculus and Applications II	4
<b>+</b>	Natural Science <sup>7</sup>	3-4
	Visual and Performing Arts <sup>8</sup>	3
		-----
		16-17
		-----
<b>TOTALS</b>		<b>66-68</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> COSC 1301 may be substituted for COSC 1300.

<sup>2</sup> All foreign language hours must be in the same language. Select a foreign language from the Communications section of the Core Curriculum Course list.

<sup>3</sup> Students thinking about transferring to UT Austin should take the MATH 2413, MATH 2414, and MATH 2415 sequence instead of the MATH 1324, MATH 1425, and MATH 1476 sequence suggested here.

<sup>4</sup> SPCH 1315 may be substituted for SPCH 1311.

<sup>5</sup> ECON 2301 can be taken first and ECON 2302 may be taken second.

# Electronics

<sup>6</sup>Select from Humanities section of the Core Curriculum Course list. You are encouraged to seriously consider finishing your third and fourth semester of foreign language with these hours.

<sup>7</sup>Select from Natural Science section of the Core Curriculum Course list.

<sup>8</sup>Select from Visual and Performing Arts section of the Core Curriculum Course list.

## ELECTRONICS

### Computer Electronics/ Telecommunications

#### Associate of Applied Science Degree

Semester I	Credit Hours
+ CETT 1403 DC Circuits	4
+ CETT 1405 AC Circuits	4
+ MATH 1314 College Algebra	3
ENGL 1301 English Composition I	3
	-----
	14
Semester II	
+ CETT 1429 Solid State Devices	4
EECT 2433 Telephone Systems	4
+ CETT 1425 Digital Fundamentals	4
SPCH 1311 Introduction to Speech Communication	3
	-----
	15
Semester III	
+ CETT 1457 Linear Integrated Circuits	4
+ EECT 2439 Communications Circuits	4
Social and Behavioral Science <sup>1</sup>	3
	-----
	11
Semester IV	
+ CETT 1445 Microprocessor	4
CPMT 1449 Computer Networking Technology	4
+ PHYS 1401 General College Physics I	4
+ Humanities/Fine Arts <sup>2</sup>	3
	-----
	15
Semester V	
# CPMT 1445 Computer Systems Maintenance	4
COSC 1315 Fundamentals of Programming	3
+ CPMT 2449 Advanced Computer Networking	4
Technology	4
	-----
	11
	-----
<b>TOTALS</b>	<b>66</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup>Select from Social and Behavioral Science section of the General Education Course list.

<sup>2</sup>Select from Humanities/Fine Arts section of the General Education Course list.

### Computer Electronics/ Telecommunications

#### Certificate

Semester I	Credit Hours
+ CETT 1403 DC Circuits	4
+ CETT 1405 AC Circuits	4
EECT 2433 Telephone Systems	4
	-----
	12
Semester II	
+ CETT 1429 Solid State Devices	4
+ CETT 1425 Digital Fundamentals	4
CPMT 1449 Computer Networking Technology	4
	-----
	12
Semester III	
+ CETT 1457 Linear Integrated Circuits	4
CPMT 1445 Computer Systems Maintenance	4
+# CPMT 2449 Advanced Computer Networking	4
Technology	4
	-----
	12
	-----
<b>TOTALS</b>	<b>36</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

### Computer Electronics/ Telecommunications

#### Basic Certificate

Semester I	Credit Hours
CPMT 1445 Computer Systems Maintenance	4
EECT 2433 Telephone Systems	4
	-----
	8
Semester II	
CPMT 1449 Computer Networking Technology	4
	-----
	4
Semester III	
+# CPMT 2449 Advanced Computer Networking	4
Technology	4
	-----
	4
	-----
<b>TOTALS</b>	<b>16</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Engineering Technology

### Associate of Applied Science Degree

Semester I	Credit Hours
+ CETT 1403 DC Circuits	4
+ CETT 1405 AC Circuits	4
+ MATH 2413 Calculus I	4
ENGL 1301 English Composition I	3
	-----
	15
<b>Semester II</b>	
+ CETT 1429 Solid State Devices	4
SPCH 1311 Introduction to Speech Communication	3
+ MATH 2414 Calculus II	4
COSC 1315 Fundamentals of Programming	3
	-----
	14
<b>Semester III</b>	
+ CETT 1457 Linear Integrated Circuits	4
+ CETT 1425 Digital Fundamentals	4
+ CETT 2471 Pulse Circuits and Waveshaping Electronics Elective <sup>1</sup>	4
	-----
	16
<b>Semester IV</b>	
+ CETT 1445 Microprocessor	4
CPMT 1445 Computer Systems Maintenance	4
+ PHYS 2425 Engineering Physics I	4
	-----
	12
<b>Semester V</b>	
+# CETT 1421 Electronic Fabrication	4
Social and Behavioral Science <sup>2</sup>	3
+ Humanities/Fine Arts <sup>3</sup>	3
	-----
	10
	-----
<b>TOTALS</b>	<b>67</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> An Electronics Elective may be any 4-semester-hour course offered with the prefixes CETT, EECT, CPMT, SMFT, LOTT, ELMT, HYDR, INTC, RBTC which is not already a specific requirement for the student's degree plan.

<sup>2</sup> Select from Social and Behavioral Science section of the General Education Course list.

<sup>3</sup> Select from Humanities/Fine Arts section of the General Education Course list.

## Engineering Technology

### Certificate

Semester I	Credit Hours
+ CETT 1403 DC Circuits	4
+ CETT 1405 AC Circuits	4
+ MATH 2413 Calculus I	4
	-----
	12
<b>Semester II</b>	
+ CETT 1429 Solid State Devices	4
+ CETT 1425 Digital Fundamentals	4
CPMT 1445 Computer Systems Maintenance	4
	-----
	12

### Semester III

+ CETT 2471 Pulse Circuits and Waveshaping	4
+ CETT 1445 Microprocessor	4
+ CETT 1457 Linear Integrated Circuits	4
	-----
	12
	-----
<b>TOTALS</b>	<b>36</b>

+ Prerequisites: See Course Descriptions.

## Robotics/Instrumentation and Control Technology

### Associate of Applied Science Degree

Semester I	Credit Hours
+ CETT 1403 DC Circuits	4
+ CETT 1405 AC Circuits	4
+ MATH 1314 College Algebra	3
ENGL 1301 English Composition I	3
	-----
	14
<b>Semester II</b>	
+ CETT 1429 Solid State Devices	4
SPCH 1311 Introduction to Speech Communication	3
COSC 1315 Fundamentals of Programming Social and Behavioral Science <sup>1</sup>	3
	-----
	13
<b>Semester III</b>	
+ CETT 1457 Linear Integrated Circuits	4
+ CETT 1425 Digital Fundamentals	4
+ CETT 2471 Pulse Circuits and Waveshaping	4
	-----
	12
<b>Semester IV</b>	
+ CETT 1445 Microprocessor	4
+ MCHN 1319 Manufacturing Materials and Processes	3
+ PHYS 1401 General College Physics I	4
+ INTC 2471 Data Acquisition and Measurement	4
	-----
	15
<b>Semester V</b>	
CPMT 1445 Computer Systems Maintenance	4
+# ELMT 2433 Industrial Electronics OR	4
+ ELMT 2441 Electromechanical Systems	4
CPMT 1449 Computer Networking Technology	4
+ Humanities/Fine Arts <sup>2</sup>	3
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	15
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<b>TOTALS</b>	<b>69</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Social and Behavioral Science section of the General Education Course list.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list.

# Electronics

## Robotics/Instrumentation And Control Technology

### Certificate

Semester I		Credit Hours
+ CETT 1403	DC Circuits	4
+ CETT 1405	AC Circuits	4
+ MATH 1314	College Algebra	3
		-----
		11
Semester II		
+ CETT 1429	Solid State Devices	4
+ CETT 1425	Digital Fundamentals	4
CPMT 1445	Computer Systems Maintenance	4
CPMT 1449	Computer Networking Technology	4
		-----
		16
Semester III		
+ CETT 1457	Linear Integrated Circuits	4
+ CETT 1445	Microprocessor	4
+# INTC 2471	Data Acquisition and Measurement	4
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		12
		-----
<b>TOTALS</b>		<b>39</b>

+ Prerequisites: See Course Descriptions.  
# Capstone course

## Semiconductor Manufacturing Technology

### Associate of Applied Science Degree

Semester I		Credit Hours
SMFT 1101	Semiconductor Industry Overview	1
+ CETT 1403	DC Circuits	4
+ CETT 1405	AC Circuits	4
+ MATH 1314	College Algebra	3
ENGL 1301	English Composition I	3
		-----
		15
Semester II		
+ CETT 1429	Solid State Devices	4
+ SCIT 1418	Applied Physics I <sup>1</sup>	4
SPCH 1315	Fundamentals of Public Speaking	3
+ CHEM 1405	Introduction to Chemistry <sup>1</sup>	4
		-----
		15
Semester III		
+ CETT 1425	Digital Fundamentals	4
+ SMFT 1341	Semiconductor Manufacturing Methods	3
+	Humanities/Fine Arts <sup>2</sup>	3
		-----
		10

Semester IV		
+ ELMT 2433	Industrial Electronics OR	4
+ ELMT 2441	Electromechanical Systems	
SMFT 1473	Semiconductor Manufacturing Technology I	4
+ INTC 2471	Data Acquisition and Measurement	4
	Social and Behavioral Science <sup>3</sup>	3
		-----
		15

Semester V		
+ SMFT 2473	Semiconductor Manufacturing Technology II	4
+# SMFT 2472	Semiconductor Equipment Operation and Maintenance	4
+ SMFT 2341	Vacuum Principles & RF Plasma Systems	3
+ CETT 1445	Microprocessor	4
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		15
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<b>TOTALS</b>		<b>70</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> A combination of CHEM 1411 and CHEM 1412 may be substituted for CHEM 1405. PHYS 1401 and PHYS 1402 may be substituted for the Applied Physics course indicated.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list.

<sup>3</sup> Select from Social/Behavioral Science section of the General Education Course list.

## Semiconductor Manufacturing Technology Specialist

### Certificate

Semester I		Credit Hours
SMFT 1101	Semiconductor Industry Overview	1
+ CETT 1403	DC Circuits	4
+ CETT 1405	AC Circuits	4
+ MATH 1314	College Algebra	3
		-----
		12
Semester II		
+ CETT 1429	Solid State Devices	4
SMFT 1473	Semiconductor Manufacturing Technology I	4
+ SCIT 1418	Applied Physics I	4
+ CHEM 1405	Introduction to Chemistry <sup>1</sup>	4
		-----
		16
Semester III		
+# SMFT 1341	Semiconductor Manufacturing Methods	3
ENGL 1301	English Composition I	3
+ SMFT 2473	Semiconductor Manufacturing Technology II	4
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		10
		-----
<b>TOTALS</b>		<b>38</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> A combination of CHEM 1411 and CHEM 1412 may be substituted for CHEM 1405. PHYS 1401 and PHYS 1402 may be substituted for the Applied Physics course indicated.

## Technician

### Associate of Applied Science Degree

Semester I	Credit Hours
+ CETT 1403 DC Circuits	4
+ CETT 1405 AC Circuits	4
+ MATH 1314 College Algebra	3
ENGL 1301 English Composition I	3
	-----
	14
<b>Semester II</b>	
+ CETT 1429 Solid State Devices	4
+ CETT 1425 Digital Fundamentals	4
COSC 1315 Fundamentals of Programming	3
SPCH 1311 Introduction to Speech Communication	3
Social and Behavioral Science <sup>1</sup>	3
	-----
	17
<b>Semester III</b>	
+ CETT 1457 Linear Integrated Circuits	4
+ CETT 2471 Pulse Circuits and Waveshaping	4
Electronics Elective <sup>2</sup>	4
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	12
<b>Semester IV</b>	
+ CETT 1445 Microprocessor	4
Electronics Elective <sup>2</sup>	4
+ PHYS 1401 General College Physics I	4
+ Humanities/Fine Arts <sup>3</sup>	3
	-----
	15
<b>Semester V</b>	
+# CETT 1421 Electronic Fabrication	4
CPMT 1445 Computer Systems Maintenance	4
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	8
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<b>TOTALS</b>	<b>66</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Social Behavioral Science section of the General Education Course list.

<sup>2</sup> An Electronics Elective may be any 4-semester-hour course offered with the prefixes CETT, EECT, CPMT, SMFT, LOTT, ELMT, HYDR, INTC, RBTC which is not already a specific requirement for the student's degree plan.

<sup>3</sup> Select from Humanities/Fine Arts section of the General Education Course list.

## Technician

### Certificate

This certificate program provides students with the necessary knowledge and skills to perform as entry-level technicians in the electronics industry. Every course in this curriculum is also required for the Associate of Applied Science degree in Electronic Technology offered by ACC; therefore, at a later date the certificate hours can be applied to the associate degree without any loss of credit.

Semester I	Credit Hours
+ CETT 1403 DC Circuits	4
+ CETT 1405 AC Circuits	4
+ MATH 1314 College Algebra	3
	-----
	11
<b>Semester II</b>	
+ CETT 1429 Solid State Devices	4
+ CETT 1425 Digital Fundamentals	4
CPMT 1445 Computer Systems Maintenance	4
	-----
	12
<b>Semester III</b>	
+ CETT 1457 Linear Integrated Circuits	4
+ CETT 1445 Microprocessor	4
	-----
	8
	-----
<b>TOTALS</b>	<b>31</b>

+ Prerequisites: See Course Descriptions.

# Emergency Medical Services Professions

## EMERGENCY MEDICAL SERVICES PROFESSIONS

### Emergency Medical Services

#### Associate of Applied Science Degree

This degree plan combines classroom teaching with supervised clinical and field experience for the emergency medical health professional. Emphasis is placed on patient assessment and initial treatment of the following: respiratory, cardiovascular, endocrine and nervous system problems; obstetrical, pediatric, geriatric and behavioral emergencies; bleeding and shock; all types of trauma and burns. The student will also receive information on pharmacology, toxicology, environmental and infectious diseases and all aspects of EMS Systems. AHA/ACLS and PALS and a trauma course certification are offered as part of the Program. Upon completion of all course work for the degree in Emergency Medical Services Technology, the student is eligible to take both State and National Registry exams for certification as an Emergency Medical Technician-Paramedic. All students participate in the National Registry examination.

ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE EMERGENCY MEDICAL SERVICES TECHNOLOGY PROGRAM AND ENROLLMENT IS LIMITED.

Division approval is required to register for any of the Emergency Medical Services Technology (EMSP) Courses beyond EMSP 1501 AND 1160. This program is nationally accredited through the Committee on Accreditation of Educational Programs for the EMS Professions, 248 Harwood Road, Bedford, Texas 76021-4244, (817) 283-9403. The student must be enrolled in, or have completed, the following listed prerequisites before admission into the program will be considered. Students accepted into the program are required to have a physical examination, provide documentation of immunizations, and must verify annual tuberculosis status.

The capstone courses for the Associate Degree are: EMSP 2243 an assessment based patient management course that allows the student to use all their skills in application to patient management and includes a comprehensive final examination; EMSP 2252 a secondary research course; and EMSP 2266, an intensive internship on an EMS unit with an EMS field training officer.

#### Prerequisites

EMSP 1501	EMT–Basic	5
EMSP 1160	EMT–Basic Clinical	1
<b>BIOL 2401</b>	Anatomy and Physiology I	4

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10

Semester I		Credit Hours
+ EMSP 1338	Introduction to Advanced Practice	3
+ EMSP 1356	Patient Assessment and Airway Management	3
+ EMSP 1161	Paramedic Clinical I	1
+ HPRS 2300	Pharmacology for Health Professions	3
KINE 1145	Weight Training I	1
	Oral Communication <sup>1</sup>	3

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14

#### Semester II

+ EMSP 1355	Trauma Management	3
+ EMSP 2338	EMS Operations	3
+ EMSP 1162	Paramedic Clinical II	1
+ <b>MATH 1314</b>	College Algebra OR	3
+ <b>MATH 1332</b>	College Mathematics	
KINE 1145	Weight Training I	1
EMSP 1149	Prehospital Trauma Life Support OR	1
EMSP 1145	Basic Trauma Life Support	

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12

#### Semester III

+ EMSP 2444	Cardiology	4
<b>PSYC 2301</b>	Introduction to Psychology	3
<b>ENGL 1301</b>	English Composition I	3

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10

#### Semester IV

+ EMSP 2534	Medical Emergencies	5
+ EMSP 2330	Special Populations	3
+ EMSP 2260	Paramedic Clinical III	2
+	Humanities/Fine Arts <sup>2</sup>	3

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13

#### Semester V

+# EMSP 2243	Assessment Based Management	2
+# EMSP 2252	EMS Research	2
+ EMSP 2237	Emergency Procedures	2
+# EMSP 2266	Practicum	2
EMSP 2135	Advanced Cardiac Life Support	1
EMSP 1147	Pediatric Advanced Life Support	1
HPRS 1303	Death and Dying OR	3
DAAC 1319	Introduction to Alcohol and Other Addictions	

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13

#### TOTALS

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72

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Oral Communication section of the General Education Course list.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list.

# Emergency Medical Services Professions

## EMT Intermediate Certificate

### Certificate

This award combines classroom teaching with supervised clinical and field experience for the emergency medical health professional. Emphasis is placed on patient assessment and initial treatment of the following: respiratory, bleeding and shock, and all types of trauma and burns. The students will also receive information on pharmacology, toxicology, environmental and infectious diseases and all aspects of EMS Systems. Upon completion of all course work for the Intermediate Certificate in Emergency Medical Services Technology, the student is eligible to take the State examination for certification as an Emergency Medical Technician-Intermediate. All students may participate in the National Registry examination.

ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE EMERGENCY MEDICAL SERVICES TECHNOLOGY PROGRAM AND ENROLLMENT IS LIMITED.

Division approval is required to register for any of the Emergency Medical Services Technology (EMSP) Courses beyond EMSP 1501 and EMSP 1160. This program is nationally accredited through the Committee on Accreditation of Educational Programs for the EMS Professions, 1248 Harwood Road, Bedford, Texas 76021-4244. (817) 283-9403. The student must be enrolled in, or have completed, the following listed prerequisites before admission into the program will be considered. Students accepted into the program are required to have a physical examination, provide documentation of immunizations, and must verify annual tuberculosis status.

The capstone course for the EMT Intermediate Level I certificate is EMSP 2338, which includes a comprehensive final examination of all objectives of the certificate.

Prerequisites	Credit Hours
EMSP 1501 EMT-Basic	5
EMSP 1160 EMT-Basic Clinical	1
<b>BIOL 2401</b> Anatomy and Physiology I	4
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	10
<b>Semester I</b>	
+ EMSP 1338 Introduction to Advanced Practice	3
+ EMSP 1356 Patient Assessment and Airway Management	3
+ EMSP 1161 Paramedic Clinical I	1
	-----
	7
<b>Semester II</b>	
+ EMSP 1355 Trauma Management	3
+# EMSP 2338 EMS Operations	3
+ EMSP 1162 Paramedic Clinical II	1
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	7
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<b>TOTALS</b>	<b>24</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## EMT Paramedic Certificate

### Certificate

This award combines classroom teaching with supervised clinical and field experience for the emergency medical health professional. Emphasis is placed on patient assessment and initial treatment of the following: respiratory, cardiovascular, endocrine and nervous system problems; obstetrical, pediatric, geriatric and behavioral emergencies; bleeding and shock; all types of trauma and burns. The student will also receive information on pharmacology, toxicology, environmental and infectious diseases and all aspects of EMS Systems. AHA/ACLS and PALS and a trauma course certification are offered as part of the Program. Upon completion of all course work for the Paramedic Certificate in Emergency Medical Services Technology, the student is eligible to take the State examination for certification as an Emergency Medical Technician-Paramedic. All students participate in the National Registry examination.

ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE EMERGENCY MEDICAL SERVICES TECHNOLOGY PROGRAM AND ENROLLMENT IS LIMITED.

Division approval is required to register for any of the Emergency Medical Services Technology (EMSP) Courses beyond EMSP 1501 and EMSP 1160. This program is nationally accredited through the Committee on Accreditation of Educational Programs for the EMS Professions, 1248 Harwood Road, Bedford, Texas 76021-4244. (817) 283-9403. The student must be enrolled in, or have completed, the following listed prerequisites before admission into the program will be considered. Students accepted into the program are required to have a physical examination, provide documentation of immunizations, and must verify annual tuberculosis status.

The capstone courses for Paramedic Level II certificate are: EMSP 2243 an assessment based patient management course that allows the student to use all their skills in application to patient management and includes a comprehensive final examination; EMSP 2252 a secondary research course; and EMSP 2266, an intensive internship on an EMS unit with an EMS field training officer.

Prerequisites	Credit Hours
EMSP 1501 EMT-Basic	5
EMS 1160 EMT-Basic Clinical	1
<b>BIOL 2401</b> Anatomy and Physiology I	4
	-----
	10
<b>Semester I</b>	
+ EMSP 1338 Introduction to Advanced Practice	3
+ EMSP 1356 Patient Assessment and Airway Management	3
+ EMSP 1161 Paramedic Clinical I	1
+ HPRS 2300 Pharmacology for Health Professions	3
	-----
	10

# Engineering

<b>Semester II</b>		
+ EMSP 1355	Trauma Management	3
+ EMSP 2338	EMS Operations	3
+ EMSP 1162	Paramedic Clinical II	1
		-----
		7
<b>Semester III</b>		
+ EMSP 2444	Cardiology	4
		-----
		4
<b>Semester IV</b>		
+ EMSP 2534	Medical Emergencies	5
+ EMSP 2330	Special Populations	3
+ EMSP 2260	Paramedic Clinical III	2
		-----
		10
<b>Semester V</b>		
+# EMSP 2243	Assessment Based Management	2
+# EMSP 2252	EMS Research	2
+ EMSP 2237	Emergency Procedures	2
+# EMSP 2266	Practicum	2
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		8
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<b>TOTALS</b>		<b>49</b>

+ Prerequisites: See Course Descriptions.  
# Capstone course

## ENGINEERING

### Engineering

#### Associate of Science Degree

The Associate of Science in Engineering is intended to match closely the curriculum of the first two years of study in most university engineering programs.

To receive an Associate of Science in Engineering, students must: (a) make a minimum grade of "C" in all required math and science courses and (b) have an overall GPA of 2.0 or greater.

		<b>Credit Hours</b>
<b>Semester I</b>		
+ CHEM 1411	General Chemistry I	4
ENGL 1301	English Composition I	3
+ ENGR 1201	Introduction to Engineering	2
+ MATH 2413	Calculus I <sup>1</sup>	4
	Oral Communication <sup>2</sup>	3
+	Humanities <sup>3</sup>	3
		-----
		19
<b>Semester II</b>		
+ ENGL 1302	English Composition II <sup>4</sup>	3
HIST 1301	United States History I <sup>5</sup>	3
+ MATH 2414	Calculus II	4
+ PHYS 2425	Engineering Physics I <sup>6</sup>	4
	Visual and Performing Arts <sup>7</sup>	3
		-----
		17

<b>Semester III</b>		
+ ENGR 2301	Vector Mechanics–Statics <sup>8</sup>	3
GOVT 2305	United States Government	3
+ MATH 2415	Calculus III	4
+ PHYS 2426	Engineering Physics II <sup>9</sup>	4
+	Humanities <sup>3</sup>	3
		-----
		17
<b>Semester IV</b>		
GOVT 2306	Texas State and Local Government	3
HIST 1302	United States History II <sup>5</sup>	3
+ MATH 2420	Differential Equations	4
	Approved Engineering or Technical Elective <sup>10</sup>	4
	Social and Behavioral Science <sup>11</sup>	3
		-----
		17
<b>TOTALS</b>		<b>70</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Students should consult with a full-time mathematics instructor since one or more mathematics courses may be required before enrolling in MATH 2413.

<sup>2</sup> Select any Speech course from Communications section of the Core Curriculum Course list.

<sup>3</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>4</sup> Or any ENGL course which will satisfy the legislative requirement; consult an English faculty advisor.

<sup>5</sup> Or any HIST course which will satisfy the legislative requirement; consult a History faculty advisor.

<sup>6</sup> Students lacking one full year of (recent) high school physics should take PHYS 1401/1402 or PHY 1653 before enrolling in PHYS 2425. All students must complete MATH 2413 before enrolling in PHYS 2425.

<sup>7</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

<sup>8</sup> Credit for PHYS 2425 and credit or concurrent enrollment in MATH 2415 are strictly required prerequisites for ENGR 2301.

<sup>9</sup> Credit for PHYS 2425 and credit for MATH 2414 are strictly required prerequisites for PHYS 2426.

<sup>10</sup> Select from this approved list the course that best matches the degree requirements at the four-year engineering school of your choice: ENGR 2302, ENGR 2332, MTH 2254, CHEM 1412, or COSC 1320.

<sup>11</sup> Select from Other Social and Behavioral Science section of the Core Curriculum Course list.

# Engineering Design Graphics

## ENGINEERING DESIGN GRAPHICS

### Electronic Graphics Specialty

#### Associate of Applied Science Degree

Semester I		Credit Hours
DFTG 1405	Technical Drafting	4
ENGL 1301	English Composition I	3
+ MATH 1332	College Mathematics OR	3
+ MATH 1314	College Algebra	3
+ _____	Humanities/Fine Arts <sup>1</sup>	3
		13

Semester II		Credit Hours
DFTG 2419	Intermediate Computer-Aided Drafting	4
+ DFTG 1458	Electrical/Electronic Drafting	4
+ CETT 1403	DC Circuits	4
SPCH 1311	Introduction to Speech Communication	3
		15

Semester III		Credit Hours
	Elective <sup>2</sup>	4
+ CETT 1425	Digital Fundamentals	4
	Social and Behavioral Science <sup>3</sup>	3
		11

Semester IV		Credit Hours
+ DFTG 2470	Integrated Circuit Layout and Design I	4
+ # DFTG 1491	Special Topics in Drafting	4
+ ITSC 1327	Multi-user Operating Systems	3
+ DFTG 2404	Printed Circuit Board Design	4
		15

Semester V		Credit Hours
+ DFTG 2471	Integrated Circuit Layout and Design II	4
+ DFTG 2436	CAD Programming	4
	Restricted Elective <sup>2</sup>	4
		12

**TOTALS** **66**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup>Select from Humanities/Fine Arts Section of the General Education Course List.

<sup>2</sup>Select from DFTG 1417, DFTG 1421, DFTG 1458, DFTG 1494, DFTG 1495, DFTG 2402, DFTG 2404, DFTG 2410, DFTG 2412, DFTG 2428, DFTG 2430, DFTG 2436, DFTG 2440, DFTG 2472, DFTG 2473, DFTG 2474, MCHN 1319.

<sup>3</sup>Select from Social and Behavioral Science section of the General Education Course list.

### Architectural Specialty

#### Associate of Applied Science Degree

Semester I		Credit Hours
DFTG 1405	Technical Drafting	4
ENGL 1301	English Composition I	3
CNBT 1411	Construction Methods and Materials	4
+ MATH 1332	College Mathematics OR	3
+ MATH 1314	College Algebra	3
		14

Semester II		Credit Hours
DFTG 2419	Intermediate Computer-Aided Drafting	4
+ GEOG 1410	Introduction to Geographic Information Systems <sup>1</sup>	4
+ _____	Humanities/Fine Arts <sup>2</sup>	3
SPCH 1311	Introduction to Speech Communication	3
		14

Semester III		Credit Hours
+ DFTG 1417	Architectural Drafting-Residential	4
DFTG 2430	Civil Drafting	4
COSC 1301	Personal Computing	3
	Social and Behavioral Science <sup>3</sup>	3
		14

Semester V		Credit Hours
	Restricted Elective <sup>4</sup>	4
+ # DFTG 1491	Special Topics in Drafting	4
+ DFTG 2410	Structural Drafting	4
		12

Semester V		Credit Hours
+ DFTG 2474	Architectural Modeling	4
+ DFTG 2432	Advanced Computer-Aided Drafting	4
		8

**TOTALS** **62**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup>Substitute for DFTG 2472.

<sup>2</sup>Select from Humanities/Fine Arts section of the General Education Course List.

<sup>3</sup>Select from Social and Behavioral Science section of the General Education Course list.

<sup>4</sup>Select from DFTG 1417, DFTG 1421, DFTG 1458, DFTG 1494, DFTG 1495, DFTG 2402, DFTG 2404, DFTG 2410, DFTG 2412, DFTG 2428, DFTG 2430, DFTG 2436, DFTG 2440, DFTG 2472, DFTG 2473, DFTG 2474, MCHN 1319.

### Mechanical Specialty

#### Associate of Applied Science Degree

Semester I		Credit Hours
DFTG 1405	Technical Drafting	4
ENGL 1301	English Composition I	3
+ MCHN 1319	Manufacturing Materials and Processes	3
+ MATH 1332	College Mathematics OR	3
+ MATH 1314	College Algebra	3
		13

Semester II		Credit Hours
DFTG 2419	Intermediate Computer-Aided Drafting	4
+ DFTG 1433	Mechanical Drafting	4
DFTG 2417	Descriptive Geometry	4
SPCH 1311	Introduction to Speech Communication	3
		15

# Engineering Design Graphics

## Semester III

+ DFTG 1458	Electrical/Electronic Drafting	4
+	Humanities/Fine Arts <sup>1</sup>	3
	Social and Behavioral Science <sup>2</sup>	3
QCTC 1343	Quality Assurance	3

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13

## Semester IV

+ DFTG 2412	Technical Illustration	4
+ DFTG 2402	Machine Drafting	4
+# DFTG 1491	Special Topics in Drafting	4

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12

## Semester V

+ DFTG 2473	Introduction to CAD/CAM	4
+ DFTG 2440	Solid Modeling/Design	4
	Restricted Elective <sup>3</sup>	4

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12

## TOTALS

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65

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Humanities/Fine Arts section of the General Education Course List.

<sup>2</sup> Select from Social and Behavioral Science section of the General Education Course list.

<sup>3</sup> Select from DFTG 1417, DFTG 1421, DFTG 1458, DFTG 1494, DFTG 1495, DFTG 2402, DFTG 2404, DFTG 2410, DFTG 2412, DFTG 2428, DFTG 2430, DFTG 2436, DFTG 2472, DFTG 2473, DFTG 2474.

## Interdisciplinary Specialty

### Associate of Applied Science Degree

Semester I		Credit Hours
DFTG 1405	Technical Drafting	4
ENGL 1301	English Composition I	3
+ MCHN 1319	Manufacturing Materials and Processes	3
+ MATH 1332	College Mathematics OR	3
+ MATH 1314	College Algebra	3

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13

## Semester II

DFTG 2419	Intermediate Computer-Aided Drafting	4
+ DFTG 1433	Mechanical Drafting	4
+	Humanities/Fine Arts <sup>1</sup>	3
SPCH 1311	Introduction to Speech Communication	3

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14

## Semester III

+ DFTG 1417	Architectural Drafting-Residential	4
	DFTG 2430 Civil Drafting	4
+ DFTG 2417	Descriptive Geometry	4
	Social and Behavioral Science <sup>2</sup>	3

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15

## Semester IV

+ DFTG 2412	Technical Illustration	4
+ DFTG 1458	Electrical/Electronic Drafting	4
+# DFTG 1491	Special Topics in Drafting	4

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12

## Semester V

DFTG 2428	Architectural Drafting-Commercial	4
+ DFTG 2402	Machine Drafting	4
	Restricted Elective <sup>3</sup>	4

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12

## TOTALS

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66

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Humanities/Fine Arts Section of the General Education Course list.

<sup>2</sup> Select from Social and Behavioral Science section of the General Education Course list.

<sup>3</sup> Select from DFTG 1417, DFTG 1421, DFTG 1458, DFTG 1494, DFTG 1495, DFTG 2402, DFTG 2404, DFTG 2410, DFTG 2412, DFTG 2428, DFTG 2430, DFTG 2436, DFTG 2440, DFTG 2472, DFTG 2473, DFTG 2474.

## Engineering Design Graphics

### Certificate

A certificate program is offered to those students interested in pursuing a career in drafting, but who do not wish to take the academic courses involved in obtaining an Associate of Applied Science degree. Students are awarded a certificate of completion when all curriculum requirements are met for certification. Students wishing to focus in a particular field (architectural/civil, mechanical, electronic, etc.) are strongly encouraged to meet with an Engineering Design Graphic advisor before pursuing the certificate program.

## Semester I

		Credit Hours
DFTG 1405	Technical Drafting	4
+ MCHN 1319	Manufacturing Materials and Processes <sup>1,3</sup>	3

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7

## Semester II

DFTG 2419	Intermediate Computer-Aided Drafting	4
+ DFTG 1433	Mechanical Drafting <sup>1</sup>	4
+ DFTG 1458	Electrical/Electronic Drafting <sup>1</sup>	4
+ DFTG 2412	Technical Illustration <sup>1</sup>	4

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16

## Semester III

+ DFTG 1417	Architectural Drafting-Residential <sup>1</sup>	4
	DFTG 2430 Civil Drafting	4
+# DFTG 1491	Special Topics in Drafting	4

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12

## TOTALS

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35

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Students wishing to specialize may substitute required courses with approved DFTG electives: DFTG 1417, DFTG 1421, DFTG 1448, DFTG 1458, DFTG 1494, DFTG 1495, DFTG 2402, DFTG 2404, DFTG 2410, DFTG 2412, DFTG 2428, DFTG 2436, DFTG 2440, DFTG 2472, DFTG 2473, DFTG 2474, MCHN 1319.

## Integrated Circuit Layout & Design Specialization

### Certificate

This program is intended for students pursuing careers in the field of Integrated Circuit Mask design. Students are strongly encouraged to meet with the Engineering Design Graphics department's electronics advisor before pursuing this certificate program

Semester I	Credit Hours
DFTG 2419 Intermediate Computer-Aided Drafting <sup>1</sup>	4
+ DFTG 1458 Electrical/Electronic Drafting <sup>1</sup>	4
+ CETT 1403 DC Circuits	4
	-----
	12
<b>Semester II</b>	
+ DFTG 2470 Integrated Circuit Layout and Design I	4
+ CETT 1425 Digital Fundamentals	4
	-----
	8
<b>Semester III</b>	
+# DFTG 2471 Integrated Circuit Layout and Design II	4
+ ITSC 1307 UNIX Operating System I	3
	-----
	7
	-----
<b>TOTALS</b>	<b>27</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Students who do not have prior drafting experience must successfully complete DFTG 1405 or seek departmental approval before enrolling in DFTG 2419 or DFTG 1458.

## ENGLISH

### English

#### Associate of Arts Degree

The Associate of Arts degree provides students with the first two years of Liberal Arts education with an emphasis on English.

Semester I	Credit Hours
<b>ENGL 1301</b> English Composition I	3
<b>HIST 1301</b> United States History I	3
Foreign Language <sup>1</sup>	5
Oral Communication <sup>2</sup>	3
COSC 1300 Introduction to Computing OR	3
COSC 1301 Personal Computing OR	
Elective <sup>3</sup>	-----
	17
<b>Semester II</b>	
+ <b>ENGL 1302</b> English Composition II	3
<b>HIST 1302</b> United States History II	3
+ Foreign Language <sup>1</sup>	5
Communications <sup>4</sup>	3
+ Natural Science <sup>5</sup>	3-4
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	17-18
<b>Semester III</b>	
<b>GOVT 2305</b> United States Government	3
+ Literature Course <sup>6</sup>	3
+ Mathematics <sup>5</sup>	3
+ Natural Science <sup>5</sup>	3-4
+ Social and Behavioral Science <sup>7</sup>	3
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	15-16
<b>Semester IV</b>	
<b>GOVT 2306</b> Texas State and Local Government	3
+ Literature Course <sup>6</sup>	3
Visual and Performing Arts <sup>8</sup>	3
Elective <sup>3</sup>	3
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	12
	-----
<b>TOTALS</b>	<b>61-63</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> The foreign language hours must be in the same language.

<sup>2</sup> The first semester speech course must be chosen from SPCH 1311 or SPCH 1315.

<sup>3</sup> Students are encouraged to take courses that would satisfy the requirements of the Core Curriculum from the Natural Sciences, Humanities, and Social and Behavioral Sciences sections.

<sup>4</sup> The second semester communications course must be chosen from the following: COMM 1307, COMM 2311, SPCH 1318, ENGL 2311.

<sup>5</sup> The Math/Natural Science requirement may be satisfied by any Math/Natural Science course from the Core Curriculum.

<sup>6</sup> The literature course must be chosen from the following: ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342.

<sup>7</sup> Select from Other Social and Behavioral Sciences section of the Core Curriculum Course list.

<sup>8</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

# Environmental Science and Technology

## ENVIRONMENTAL SCIENCE AND TECHNOLOGY

### Environmental Studies

#### Associate of Science Degree

The Associate of Science in Environmental Studies provides students with the general education courses normally taken in the first two years at a four-year college or university and a flexible plan from which the student can choose a variety of introductory science courses as part of an interdisciplinary or environmental science program. To receive an Associate of Science in Environmental Studies, students must: (a) make a minimum grade of "C" in all required math and science courses and (b) have an overall GPA of 2.0 or greater.

Semester I		Credit Hours
ENGL 1301	English Composition I Humanities <sup>1</sup>	3
HIST 1301	United States History I Economics Elective <sup>2</sup>	3
ENVR 1301	Introduction to Environmental Science	3
		-----
		15
Semester II		
+ ENGL 1302	English Composition II	3
HIST 1302	United States History II	3
+ MATH 1342	Elementary Statistics	3
+ ENVR 1302	Issues in Environmental Science Oral Communication <sup>3</sup>	3
		-----
		15
Semester III		
	Unrestricted Elective <sup>4</sup>	4
GOVT 2305	United States Government Social and Behavioral Science <sup>5</sup>	3
	Natural Science <sup>6</sup>	4
	Humanities <sup>1</sup>	3
		-----
		17
Semester IV		
	Visual and Performing Arts <sup>7</sup>	3
	Unrestricted Elective <sup>4</sup>	3
GOVT 2306	Texas State and Local Government Natural Science <sup>6</sup>	4
EPCT 1205	Environmental Regulations Overview	2
		-----
		15
<b>TOTALS</b>		<b>62</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>2</sup> Students may select from ECO 1603, ECO 1653, ECON 2301, or ECON 2302.

<sup>3</sup> Select any Speech course from Communication section of the Core Curriculum Course list.

<sup>4</sup> Although general electives may be chosen from any college credit program at ACC, students intending to transfer to a four year college or university may want to choose courses applicable to their four-year degree. Consult the catalog of the institution. Students may wish to choose electives that satisfy the Core Curriculum requirements.

<sup>5</sup> Select from Other Social and Behavioral Science section of the Core Curriculum Course list.

<sup>6</sup> These courses must have one of the following prefixes: BIOL, CHEM, GEOL, PHYS, or EPCT. Students should be guided by their special interests (e.g., oceanography, environmental engineering) and by the requirements of the four-year college to which they plan to transfer.

<sup>7</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

### Environmental Studies

#### Environmental Studies

#### Associate of Applied Science Degree

The Associate of Applied Science provides students with specialized training in environmental technology along with general education courses in the arts and sciences. It is designed to prepare students for employment in the area of water resource sampling and assessment. Students interested in this program should consult with a full-time environmental technology instructor before taking any courses. To receive an Associate of Applied Science in Environmental Technology, students must: (a) make a minimum grade of "C" in all required math and science courses and (b) have an overall GPA of 2.0 or greater.

Semester I		Credit Hours
COSC 1301	Personal Computing	3
+ CHEM 1411	General Chemistry I	4
ENVR 1301	Introduction to Environmental Science	3
+ MATH 1314	College Algebra	3
ENGL 1301	English Composition I	3
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		16
Semester II		
+ ENGL 2311	Technical & Business Writing	3
+ MATH 1342	Elementary Statistics	3
+ CHEM 1412	General Chemistry II	4
+ GEOL 1403	Physical Geology	4
BIO 1673	Ecology and Evolutionary Biology	3
		-----
		17
Semester III		
	Humanities/Fine Arts <sup>1</sup>	3
SPCH 1318	Interpersonal Communication	3
		-----
		6
Semester IV		
+ GEOL 1105	Laboratory in Environmental Geology	1
GOVT 2306	Texas State and Local Government <sup>2</sup>	3
+ EPCT 1344	Introduction to Environmental Field Methods	3
+ EPCT 2415	Chemistry of Natural Waters	4
+ BIO 2614	Aquatic Biology	4
		-----
		15

# Financial Management and Mortgage Banking

## Semester V

	Math/Science Elective <sup>3</sup>	3-4
EPCT 1205	Environmental Regulations Overview	2
+ EPCT 2403	Field Methods with Natural Waters	4
+ EPCT 2488	Environmental Technology–Internship	4

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13-14  
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**TOTALS** **67-68**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> This must be either PHIL 2303 or PHIL 2306.

<sup>2</sup> This must be a section of GOVT 2306 emphasizing land-use issues.

<sup>3</sup> Students should consult with a full-time environmental technology instructor before selecting from BIOL 1409, BIOL 2420, DFTG 1405, ENGR 1201, GEOG 1410, GEOL 1445, MATH 1316, SCIT 1418, or SRVY 1301.

## Environmental Technology

### Advanced Technical Certificate

The advanced technical certificate is for returning students who already possess an Associate of Science or Bachelor of Science degree in biology, geology, or environmental science and receive departmental approval. It provides them with specialized training in environmental technology. To receive an Advanced Technical Certificate in Environmental Technology, students must: (a) make a minimum of “C” in all required math and science courses and (b) have an overall GPA of 2.0 or greater.

### Semester I Credit Hours

+ EPCT 1344	Introduction to Environmental Field Methods	3
+ EPCT 2415	Chemistry of Natural Waters	4
+ BIO 2614	Aquatic Biology	4
ENVR 1301	Introduction to Environmental Science <sup>1</sup>	3
+ GEOL 1105	Laboratory in Environmental Geology	1

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15  
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### Semester II

+ EPCT 2403	Field Methods with Natural Waters	4
EPCT 1205	Environmental Regulations Overview	2
+ EPCT 2488	Environmental Technology–Internship	4

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10  
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**TOTALS** **25**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> With approval of the department, the student may receive transfer credit for a general course in environmental science, environmental studies, or natural resources.

## FINANCIAL MANAGEMENT AND MORTGAGE BANKING

### Mortgage Banking

#### Associate of Applied Science Degree

### Semester I Credit Hours

ENGL 1301	English Composition I	3
COSC 1301	Personal Computing	3
RELE 1324	Loan Origination and Quality Control	3
RELE 1406	Real Estate Principles	4
BUSI 1301	Introduction to Business	3

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16  
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### Semester II

ECON 2302	Principles of Microeconomics	3
SPCH 1315	Fundamentals of Public Speaking	3
ACCT 2301	Principles of Financial Accounting	3
+ BNKG 1371	Loan Underwriting	3
RELE 1319	Real Estate Finance	3

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15  
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### Semester III

+ ACCT 2302	Principles of Managerial Accounting	3
ECON 2301	Principles of Macroeconomics	3
BNKG 1373	Loan Closing	3
+ BNKG 1372	Loan Quality Control	3
+ Humanities/Fine Arts <sup>1</sup>		3

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15  
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### Semester IV

+ MATH 1332	College Mathematics OR	3
+ MATH 1342	Elementary Statistics	3
+ BNKG 1357	Investor Accounting	3
+ BNKG 1358	Secondary Markets	3
+ BMGT 2389	OJT/Internship II–Management Unrestricted Elective	3

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15  
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**TOTALS** **61**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Humanities/Fine Arts section of General Education Course list.

### Mortgage Banking

#### Certificate

This certificate program is designed to meet the needs of the individuals in the community who desire skills and knowledge in mortgage banking. All of these courses will aid these employees of the mortgage banking industry. All courses may be applied towards the Mortgage Banking Associates Degree, if the student desires to pursue an associate degree.

RELE 1324	Loan Origination and Quality Control	3
+ BNKG 1371	Loan Underwriting	3
BNKG 1373	Loan Closing	3
+ BNKG 1372	Loan Quality Control	3
+ BNKG 1357	Investor Accounting	3
+ BNKG 1358	Secondary Markets	3

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18  
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**TOTALS** **18**

+ Prerequisites: See Course Descriptions.

# Capstone course

# Fire Protection

## FIRE PROTECTION

### Fire Protection Technology

#### Associate of Applied Science Degree

The Associate of Applied Science degree in Fire Protection Technology includes courses in the Arts and Sciences curriculum as well as a wide array of Fire Science courses to prepare the student for further attainment of their educational goals and/or employment within the Fire Protection profession. Students should consult with departmental advisors for transferable courses prior to enrollment. The Associate of Applied Science degree plan requires that the student successfully pass a capstone course during the last semester of their program. Graduates of any Texas Fire Commission certified Basic Firefighter Academy who successfully pass the State Certification Exam and complete a minimum of three semester hours from Austin Community College toward the AAS Degree in Fire Protection may be granted twelve semester hours credit. Student should contact the Department to determine eligibility for this credit.

<b>Semester I</b>		<b>Credit Hours</b>
FIRT 1301	Fundamentals of Fire Protection	3
<b>ENGL 1301</b>	English Composition I	3
FIRT 1347	Industrial Fire Protection	3
FIRT 1303	Fire and Arson Investigation I Fire Elective <sup>2</sup>	3
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		15
<b>Semester II</b>		
FIRT 1307	Fire Prevention Codes and Inspections	3
<b>GOVT 2306</b>	Texas State and Local Government Unrestricted Elective Mathematics <sup>1</sup>	3
FIRT 1309	Fire Administration I Fire Elective <sup>2</sup>	3
		-----
		18
<b>Semester III</b>		
FIRT 1315	Hazardous Materials I	3
FIRT 1355	Methods of Teaching	3
<b>SPCH 1315</b>	Fundamentals of Public Speaking Natural Science Fire Elective <sup>2</sup>	3
		-----
		15
<b>Semester IV</b>		
+# FIRT 1349	Fire Administration II	3
FIRT 1331	Firefighting Strategies and Tactics	3
<b>PHIL 2306</b>	Ethics	3
COSC 1301	Personal Computing Fire Elective <sup>2</sup>	3
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		15
<b>TOTALS</b>		<b>63</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Math options include: MATH 1314, MATH 1324, MATH 1332, MATH 1333, or MATH 1342.

<sup>2</sup> Fire Elective Options: FIRT 1338, FIRT 1353, FIRT 1345, FIRT 2333, FIRT 1323, FIRT 1327, FIRT 1319.

## Firefighter

### Certificate

The program is designed to give the student instruction in the areas of fire fighting that are required to be certified in fire suppression. Instruction includes but is not limited to the following: Rules & regulations, forcible entry, ladder practices, fire streams, ventilation, rescue practices, inspection, automatic sprinklers, self contained breathing apparatus, and simulated emergency. The student works in a professionally staffed atmosphere with modern equipment. This course teaches the skills necessary to prepare the student for entry-level employment in the fire protection industry.

The firefighter certification program requires a separate application through the fire training academy for admission into the program. All five courses must be taken concurrently and require department approval before registration. The firefighter certificate requires a reading skills prerequisite. Students must take and pass the TASP or the COMPASS placement with a minimum grade of 75.

FIRS 1401	Firefighter Certification I	4
FIRS 1407	Firefighter Certification II	4
FIRS 1313	Firefighter Certification III	3
FIRS 1323	Firefighter Certification V	3
FIRS 1433	Firefighter Certification VII	4
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		18
<b>TOTALS</b>		<b>18</b>

## FOREIGN LANGUAGE

### Foreign Language

#### Associate of Arts Degree

The Associate of Arts degree in Foreign Language provides students with the first two years of college education in French, German, Japanese, Latin, Russian, or Spanish.

Semester I	Credit Hours
ENGL 1301 English Composition I	3
History <sup>1</sup>	3
+ Mathematics <sup>2</sup>	3
Foreign Language I <sup>3</sup>	4-5
Elective <sup>4</sup>	1-2
	-----
	14-16
<b>Semester II</b>	
+ ENGL 1302 English Composition II	3
History <sup>5</sup>	3
Oral Communication <sup>6</sup>	3
+ Foreign Language II <sup>3</sup>	4-5
+ Visual and Performing Arts <sup>7</sup>	3
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	16-17
<b>Semester III</b>	
GOVT 2305 United States Government	3
+ Humanities <sup>8</sup>	3
+ Foreign Language III <sup>3</sup>	3
+ Natural Science <sup>9</sup>	3-4
Elective <sup>4</sup>	3
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	15-16
<b>Semester IV</b>	
GOVT 2306 Texas State and Local Government	3
COSC 1300 Introduction to Computing OR	3
COSC 1301 Personal Computing	3
+ Foreign Language IV <sup>3</sup>	3
Natural Science <sup>9</sup>	3-4
Social and Behavioral Science <sup>10</sup>	3
	-----
	15-16
<b>TOTALS</b>	<b>60-65</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from the following: HIST 1301, HIST 2381, HIST 2380, or HIST 2301. History of Texas (HIST 2301) can be used to fulfill only one of the History elective requirements.

<sup>2</sup> Select from Mathematics section of the Core Curriculum Course list.

<sup>3</sup> Foreign language hours must be in the same language.

<sup>4</sup> These courses may be taken from any program. However, students are encouraged to choose a literature course. Students with 8-9 foreign language hours must take an additional 1-2 hours of a general elective.

<sup>5</sup> Select from HIST 1302 or HIST 2301. History of Texas can be used to fulfill only one of the History elective requirements.

<sup>6</sup> Select any Speech course from Communications section of the Core Curriculum Course list.

<sup>7</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

<sup>8</sup> Select from the following: ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, HUMA 1315, HUMA 1301, PHIL 1301, PHIL 2303, or PHIL 2306.

<sup>9</sup> Select from Natural Science section of the Core Curriculum Course list.

<sup>10</sup> Select from Other Social and Behavioral Science section of the Core Curriculum Course list.

## GENERAL STUDIES

### Early Childhood Education

#### Associate of Arts Degree

Semester I	Credit Hours
ENGL 1301 English Composition I	3
HIST 1301 United States History I	3
+ TECA 1303 Family and Community	3
+ Mathematics <sup>1</sup>	3
Oral Communication <sup>2</sup>	3
	-----
	15
<b>Semester II</b>	
+ ENGL 1302 English Composition II	3
HIST 1302 United States History II	3
+ TECA 1311 Introduction to Early Childhood	3
Education	3
Unrestricted Elective	3
Social and Behavioral Science <sup>3</sup>	3
	-----
	15
<b>Semester III</b>	
GOVT 2305 United States Government	3
+ TECA 1318 Nutrition, Health, and Safety	3
Unrestricted Elective	3
+ Humanities <sup>4</sup>	3
+ Natural Science <sup>5</sup>	3-4
	-----
	15-16
<b>Semester IV</b>	
GOVT 2306 Texas State and Local Government	3
+ TECA 1354 Child Growth and Development	3
+ Humanities <sup>4</sup>	3
Visual and Performing Arts <sup>6</sup>	3
+ Natural Science <sup>5</sup>	3-4
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	15-16
<b>TOTALS</b>	<b>60-62</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from Mathematics section of the Core Curriculum Course list.

<sup>2</sup> Select from Communications section of the Core Curriculum Course list.

<sup>3</sup> Select from Other Social and Behavioral Science section of the Core Curriculum Course list.

<sup>4</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>5</sup> Select from Natural Science section of the Core Curriculum Course list.

<sup>6</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

# General Studies

## General Studies in Liberal Arts

### Associate of Arts Degree

The General Studies program is designed for students desiring a liberal arts education and those who are planning to transfer to a four-year institution to major in a liberal arts or education field.

<b>Semester I</b>		<b>Credit Hours</b>
<b>ENGL 1301</b>	English Composition I	3
	History <sup>1</sup>	3
<b>PSYC 1300</b>	Effective Learning–Strategies for College Success OR	3
<b>CREX 1309</b>	Career Exploration/Planning	4
+	Natural Science <sup>2</sup>	3
	Oral Communication <sup>3</sup>	3
		-----
		16
<b>Semester II</b>		
+	<b>ENGL 1302</b> English Composition II	3
	<b>HIST 1302</b> United States History II OR	3
	<b>HIST 2301</b> History of Texas	3
	<b>COSC 1301</b> Personal Computing	3
+	Natural Science <sup>2</sup>	4
	Visual and Performing Arts <sup>4</sup>	3-4
		-----
		16-17
<b>Semester III</b>		
	<b>GOVT 2305</b> United States Government	3
+	Foreign Language	4-5
+	Mathematics <sup>5</sup>	3
	<b>PSYC 2301</b> Introduction to Psychology OR	3
	<b>SOCI 1301</b> Introduction to Sociology	3-4
	Humanities <sup>6</sup>	3-4
		-----
		16-18
<b>Semester IV</b>		
	<b>GOVT 2306</b> Texas State and Local Government	3
+	Foreign Language <sup>7</sup>	4-5
	Humanities <sup>6</sup>	3
	Unrestricted Elective	3
		-----
		13-14
<b>TOTALS</b>		<b>61-65</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from HIST 1301, HIST 2381, HIST 2380, HIST 2301.

<sup>2</sup> Select from Natural Sciences section of the Core Curriculum Course list.

<sup>3</sup> Select any Speech course from Communications section of the Core Curriculum Course list.

<sup>4</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

<sup>5</sup> Select from Math section of the Core Curriculum Course list.

<sup>6</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>7</sup> Must be from the same language taken in the previous semester.

## General Studies in Science

### Associate of Science Degree

The General Studies in Science program is designed for students desiring to pursue a flexible plan in the area of mathematics, science, and computer science. Students planning to transfer to a four-year college or university are encouraged to obtain information about the course requirements for at least two possible majors of interest from their four-year college or university and choose their courses appropriately. Students who do not choose their courses very carefully should expect to spend an additional five or six semesters in order to complete a bachelor's degree with a specific science major. To receive an Associate of Science in General Studies in Science, students must: (a) make a minimum grade of "C" in all required math and science courses and (b) have an overall GPA of 2.0 or greater.

<b>Semester I</b>		<b>Credit Hours</b>
+	Natural Science <sup>1</sup>	4
+	<b>MATH 1316</b> Trigonometry <sup>2</sup>	3
	<b>HIST 1301</b> United States History I <sup>3</sup>	3
	<b>ENGL 1301</b> English Composition I	3
	Humanities <sup>4</sup>	3
		-----
		16
<b>Semester II</b>		
+	Natural Science <sup>1</sup>	4
+	<b>MATH 2412</b> Precalculus–Functions and Graphs <sup>2</sup>	4
+	<b>ENGL 1302</b> English Composition II	3
	Core Curriculum Elective <sup>5</sup>	3
		-----
		14
<b>Semester III</b>		
	<b>COSC 1300</b> Introduction to Computing OR	3
+	Natural Science <sup>1</sup>	3
+	<b>MATH 2413</b> Calculus I <sup>2</sup>	4
	<b>GOVT 2305</b> United States Government	3
	<b>HIST 1302</b> United States History II	3
	Core Curriculum Elective <sup>5</sup>	3
		-----
		16
<b>Semester IV</b>		
+	<b>COSC 1320</b> C++ Programming OR	3
+	Natural Science <sup>1</sup>	3
	<b>GOVT 2306</b> Texas State and Local Government	3
	Oral Communication <sup>6</sup>	3
	Core Curriculum Elective <sup>5</sup>	3
	General Elective <sup>7</sup>	3
		-----
		15
<b>TOTALS</b>		<b>61</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> The science courses must include a two-semester sequence of four-hour courses from the Core Curriculum list in BIOL, GEOL, CHEM, or PHYS. The remaining science courses may be from any BIOL, ENVR, GEOL, CHEM, PHYS, EPCT, or PSC.

<sup>2</sup> Three math courses must be chosen from among MATH 1316, MATH 2412, MATH 2413, MATH 2414, and MATH 2415. Students should consult with a mathematics advisor to determine where they should begin their mathematics study. They may need to take one or more courses prior to taking these, such as MATD 0390 or MATH 1314. Students are encouraged

to begin higher in the mathematics sequence if they meet the prerequisites. Students who will need to take more than one semester of calculus for their four-year degree are very strongly encouraged to take all calculus courses at the same school in order to avoid changing textbooks in the middle of the sequence.

- <sup>3</sup> Any other US History I course in the Core Curriculum may be substituted for HIST 1301.
- <sup>4</sup> Select from Humanities section of the Core Curriculum Course list.
- <sup>5</sup> Select one course from Visual and Performing Arts Core Curriculum list, one course from Other Social and Behavioral Science Core Curriculum list, and an additional course from Humanities Core Curriculum list.
- <sup>6</sup> Select any Speech course from Communications section of the Core Curriculum Course list.
- <sup>7</sup> Students are encouraged to choose a course that fits their four-year degree plan. Most four-year degree plans in science require some foreign language courses which students are encouraged to take in the first two years.

## Grade 4-8 Certification

### Associate of Arts Degree

Semester I	Credit Hours
ENGL 1301 English Composition I	3
HIST 1301 United States History I	3
+ MATH 1314 College Algebra OR	3
+ MATH 1332 College Mathematics	
EDUC 1301 Schools and Society	3
Oral Communicaiton <sup>1</sup>	3
	-----
	15
<b>Semester II</b>	
+ ENGL 1302 English Composition II	3
HIST 1302 United States History II	3
+ MATH 1350 Mathematics for Middle Grade Teacher Certification I	3
Social and Behavioral Science	3
+ Natural Science <sup>2</sup>	3-4
	-----
	15-16
<b>Semester III</b>	
GOVT 2305 United States Government	3
+ MATH 1351 Mathematics for Middle Grade Teacher Certification II	3
+ Humanities <sup>3</sup>	3
Visual and Performing Arts <sup>4</sup>	3
+ Natural Science <sup>2</sup>	3-4
	-----
	15-16
<b>Semester IV</b>	
GOVT 2306 Texas State and Local Government	3
+ Humanities <sup>3</sup>	3
+ PSYC 2309 Child Growth and Development Through Adolescence	3
Restricted Elective <sup>5</sup>	3
Restricted Elective <sup>5</sup>	3
	-----
	15
<b>TOTALS</b>	<b>60-62</b>

- + Prerequisites: See Course Descriptions.
- <sup>1</sup> Select any Speech course from Communications section of the Core Curriculum Course list.
- <sup>2</sup> Select from Natural Science section of the Core Curriculum Course list in the same discipline.
- <sup>3</sup> Select from Humanities section of the Core Curriculum Course list.
- <sup>4</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.
- <sup>5</sup> Students are encouraged to choose from GEOG 1301, GEOG 1302, Spanish, or Physical Science courses.

## GEOGRAPHY

### Geography

#### Associate of Arts Degree

The Associate of Arts degree in geography is intended to provide students with the first two years of geography and an introduction to field work in geography, in addition to a broad selection of liberal arts courses transferable to a four-year institution.

Semester I	Credit Hours
GOG 2433 World/Regional Geography	3
Foreign Language <sup>1</sup>	5
ENGL 1301 English Composition I	3
HIST 1301 United States History I <sup>2</sup>	3
ANTH 2351 Cultural Anthropology <sup>3</sup>	3
	-----
	17
<b>Semester II</b>	
GEOG 1302 Introduction to Cultural Geography	3
+ Foreign Language <sup>1</sup>	5
+ ENGL 1302 English Composition II	3
HIST 1302 United States History II <sup>4</sup>	3
+ MATH 1314 College Algebra	3
	-----
	17
<b>Semester III</b>	
GEOG 1301 Introduction to Physical Geography	3
GOVT 2305 United States Government	3
+ Humanities <sup>5</sup>	3
BIOL 2206 Environmental Biology Lecture <sup>6</sup>	2
+ BIOL 2106 Environmental Biology Lab <sup>6</sup>	1
Visual and Performing Arts <sup>7</sup>	3
	-----
	15
<b>Semester IV</b>	
GOVT 2306 Texas State and Local Government	3
GEOL 1305 Environmental Geology <sup>8</sup>	3
GEOG 1410 Introduction to Geographic Information Systems	4
+ Humanities <sup>5</sup>	3
SPCH 1311 Introduction to Speech Communication <sup>9</sup>	3
	-----
	16
<b>TOTALS</b>	<b>65</b>

- + Prerequisites: See Course Descriptions.
- <sup>1</sup> Foreign language hours must all be in the same language. Spanish is recommended.
- <sup>2</sup> HIST 2381, HIST 2380, HIST 2301, or HIST 2341 may be substituted for HIST 1301.
- <sup>3</sup> You may substitute SOCI 1301 for this course.
- <sup>4</sup> HIST 1643, HIST 1663, HIST 2301, or HIST 2341 may be substituted for HIST 1302.
- <sup>5</sup> Select from Humanities section of the Core Curriculum Course list.
- <sup>6</sup> BIOL 2206 is to be taken with BIOL 2106 or the student may also substitute a course from Natural Science section of the Core Curriculum Course list.
- <sup>7</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.
- <sup>8</sup> Students may substitute a course from Natural Science section of the Core Curriculum Course list.
- <sup>9</sup> SPCH 1315 may be substituted for SPCH 1311.

## GEOLOGY

### Geology

#### Associate of Science Degree

The Associate of Science degree in geology provides students with the general education and scientific courses normally taken in the first two years at a four-year college or university. Students must consult with a full-time geology instructor before pursuing the degree plan shown here. To receive an Associate of Science in Geology, students must: (a) make a minimum grade of "C" in all required math and science courses and (b) have an overall GPA of 2.0 or greater.

<b>Semester I</b>		<b>Credit Hours</b>
+ <b>CHEM 1411</b>	General Chemistry I	4
<b>ENGL 1301</b>	English Composition I	3
<b>GOVT 2305</b>	United States Government	3
<b>HIST 1301</b>	United States History I Oral Communication <sup>1</sup>	3 3
		16
<b>Semester II</b>		
+ <b>CHEM 1412</b>	General Chemistry II	4
+ <b>ENGL 1302</b>	English Composition II	3
<b>GOVT 2306</b>	Texas State and Local Government	3
<b>HIST 1302</b>	United States History II	3
+ <b>MATH 2413</b>	Calculus I <sup>2</sup>	4
		17
<b>Semester III</b>		
+ <b>BIO 1401</b>	Biology Elective <sup>3</sup>	3
+ <b>GEOL 1403</b>	Physical Geology	4
+ <b>MATH 2414</b>	Calculus II	4
+ <b>PHYS 2425</b>	Engineering Physics I <sup>4</sup> Social and Behavioral Science <sup>5</sup>	4 3
+ <b>HIST 1301</b>	Humanities <sup>6</sup>	3
		21
<b>Semester IV</b>		
+ <b>ART 1401</b>	Visual and Performing Arts <sup>7</sup> Humanities <sup>6</sup>	3 3
+ <b>GEOL 1404</b>	Historical Geology	4
+ <b>PHYS 2426</b>	Engineering Physics II <sup>8</sup>	4
+ <b>MATH 2415</b>	Calculus III	4
		18
<b>TOTALS</b>		<b>72</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from Oral Communication section of the General Education Course list.

<sup>2</sup> Students should consult with a full-time mathematics instructor to determine if it is necessary to take one or more mathematics courses (like MATD 0390, MATH 1314, MATH 1316, or MATH 2412) before taking calculus.

<sup>3</sup> Biology courses covering evolutionary or environmental topics are especially recommended.

<sup>4</sup> Students who have not had one full year of high school physics should take PHYS 1401/1402 before taking PHYS 2425. Students with strong mathematics background may substitute PHY 1653 for PHYS 1401/1402. All students must complete MATH 2413 before enrolling in PHYS 2425.

<sup>5</sup> Select from Other Social and Behavioral Science section of the Core Curriculum Course list.

<sup>6</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>7</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

<sup>8</sup> All students must complete MATH 2414 before enrolling in PHYS 2426.

## Geomatics

(See Land Surveying Technology)

## GOVERNMENT

### Government

#### Associate of Arts Degree

The Associate of Arts degree in Government is intended to provide students with the first two years of government courses and to prepare them for transfer to an institution that grants a baccalaureate degree. Students who plan to transfer to an institution which grants a baccalaureate degree in order to continue their study of government should refer to the catalog of that institution and consult with an ACC instructor of government.

<b>Semester I</b>		<b>Credit Hours</b>
<b>ENGL 1301</b>	English Composition I History <sup>1</sup>	3 3
+ <b>MATH 1342</b>	Elementary Statistics OR	3
+ <b>MATH 1314</b>	College Algebra Oral Communication <sup>2</sup> Foreign Language <sup>3</sup>	3 3 5
		17
<b>Semester II</b>		
+ <b>ENGL 1302</b>	English Composition II History <sup>4</sup>	3 3
<b>GOVT 2305</b>	United States Government <sup>5</sup>	3
+ <b>GOVT 2306</b>	Foreign Language <sup>3</sup>	5
+ <b>PHYS 2425</b>	Natural Science <sup>6</sup>	3-4
		17-18
<b>Semester III</b>		
+ <b>GOVT 2306</b>	Literature <sup>7</sup>	3
+ <b>GOVT 2306</b>	Texas State and Local Government <sup>5</sup>	3
+ <b>GOVT 2306</b>	Humanities <sup>8</sup>	3
+ <b>PHYS 2425</b>	Natural Science <sup>6</sup>	3-4
+ <b>GOVT 2306</b>	Restricted Elective <sup>9</sup>	3-6
		15-19
<b>Semester IV</b>		
<b>ECON 2301</b>	Principles of Macroeconomics	3
<b>GOV 2633</b>	Special Topics in United States Government <sup>10</sup> Visual and Performing Arts <sup>11</sup> General Elective <sup>12</sup>	3 3 6
		15
<b>TOTALS</b>		<b>64-69</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from the following: HIST 1301, HIST 2381, HIST 2380, HIST 2301, or HIST 2341. HIST 2301, History of Texas, may be taken only once. HIST 1302 may be taken before HIST 1301.

<sup>2</sup> Select from the following: SPCH 1311, SPCH 1315, SPCH 1318, ENGL 2311.

<sup>3</sup> Foreign language hours must be taken in the same language.

<sup>4</sup> Select from the following: HIST 1302, HIST 2381, HIST 2380, HIST 2301, HIST 2341.

# Health and Kinesiology

- <sup>5</sup> GOVT 2306 may be taken before GOVT 2305.  
<sup>6</sup> Select from Natural Science section of the General Education Core courses.  
<sup>7</sup> Select from the following: ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328.  
<sup>8</sup> Select from Humanities section of the Core Curriculum Course list.  
<sup>9</sup> Select from Other Social and Behavioral Science section of the Core Curriculum Course list.  
<sup>10</sup> Students may repeat GOV 2633 for credit if the Special Topics differ.  
<sup>11</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.  
<sup>12</sup> General Electives: Although these courses may be selected from any program, students planning to transfer to an institution for a baccalaureate degree are advised to choose electives which will be applicable to their baccalaureate degree.

## HEALTH & KINESIOLOGY

### Health

#### Associate of Science Degree

Semester I		Credit Hours
	ENGL 1301 English Composition I	3
	HIST 1301 United States History I	3
+	BIOL 1406 Cellular and Molecular Biology OR	3-4
	BIOL 2306 The Living Planet	
	Restricted Elective <sup>1</sup>	3
	Any Activity Course	1
	Unrestricted Elective	3
		-----
		16-17
Semester II		
+	ENGL 1302 English Composition II	3
	HIST 1302 United States History II	3
+	CHEM 1411 General Chemistry I	4
	KINE 1306 First Aid and Safety	3
	Visual & Performing Arts <sup>2</sup>	3
	Any Activity Course	1
		-----
		17
Semester III		
	GOVT 2305 United States Government	3
+	Literature <sup>3</sup>	3
	Restricted Elective <sup>1</sup>	3
	PHIL 1301 Introduction to Philosophy	3
+	Mathematics <sup>4</sup>	3
	Any Activity Course	1
		-----
		16
Semester IV		
	GOVT 2306 Texas State and Local Government	3
	COSC 1301 Personal Computing	3
	Restricted Elective <sup>1</sup>	3
	SPCH 1311 Introduction to Speech Communication	
	OR	3
	SPCH 1315 Fundamentals of Public Speaking	
	PSYC 2301 Introduction to Psychology	3
	Any Activity Course	1
		-----
		16
<b>TOTALS</b>		<b>65-66</b>

- + Prerequisites: See Course Descriptions.  
<sup>1</sup> Select from the following: KINE 1305, KINE 1304, KINE 1370.  
<sup>2</sup> Select from Visual/Performing Arts section of the Core Curriculum Course list.  
<sup>3</sup> Select a literature course from Humanities section of the Core Curriculum Course list.  
<sup>4</sup> Select from MATH 1332, MATH 1314, or MATH 1342.

## Kinesiology

### Associate of Science Degree

(formerly Health and Physical Education)

Semester I		Credit Hours
	ENGL 1301 English Composition I	3
	HIST 1301 United States History I	3
+	BIOL 1406 Cellular and Molecular Biology	4
	KINE 1301 Foundations of Physical Education	3
	Any KINE Activity Course	1
+	Humanities <sup>1</sup>	3
		-----
		17
Semester II		
+	ENGL 1302 English Composition II	3
	HIST 1302 United States History II	3
+	CHEM 1411 General Chemistry I	4
	KINE 1306 First Aid and Safety OR	3
	KINE 2356 Care and Prevention of Athletic Injuries	
	Any KINE activity course	1
+	Humanities	3
		-----
		17
Semester III		
	GOVT 2305 United States Government	3
	BIOL 2401 Anatomy & Physiology I	4
+	MATH 1314 College Algebra OR	3
+	MATH 1332 College Mathematics	
	Restricted Elective <sup>2</sup>	3
	KINE Activity Course	1
	Unrestricted Elective	3-4
		-----
		17-18
Semester IV		
	GOVT 2306 Texas State and Local Government	3
+	BIOL 2402 Anatomy and Physiology II	4
	SPCH 1311 Introduction to Speech Communication	
	OR	3
	SPCH 1315 Fundamentals of Public Speaking	
	KINE 1321 Coaching OR	3
+	KINE 1322 Aerobic Instructor	
	Unrestricted Elective	3-4
		-----
		16-17
<b>TOTALS</b>		<b>67-69</b>

- + Prerequisites: See Course Descriptions.  
<sup>1</sup> Select from Humanities section of the Core Curriculum Course list.  
<sup>2</sup> Select from the following: KINE 1308, KINE 1309, KINE 1322.

# Heating, Air Conditioning, & Refrigeration Technology

## HEATING, AIR CONDITIONING, & REFRIGERATION TECHNOLOGY

### Heating, Air Conditioning, and Refrigeration Technology

#### Associate of Applied Science Degree

The Heating, Air Conditioning, and Refrigeration Technology program enables the student to become proficient in the installation, repair and maintenance of commercial and domestic heating, air conditioning and refrigeration systems through the study of the theory and application of air conditioning principles. Study includes principles of heat transfer, pressure and temperature laws, soldering, electrical circuits, trouble shooting and maintenance procedures, and use of test equipment. The labs include extensive hands-on experience.

Semester I		Credit Hours
CETT 1402	Electricity Principles	4
+ MATH 1314	College Algebra <sup>1</sup>	3
	Social and Behavioral Science <sup>2</sup>	3
ENGL 1301	English Composition I	3
HART 1407	Refrigeration Principles	4
		-----
		17

Semester II		Credit Hours
+ HART 1403	A/C Control Principles	4
+ HART 1441	Residential Air Conditioning	4
+ HART 1445	Gas and Electric Heating	4
+ HART 2431	Advanced Electricity	4
		-----
		16

Semester III		Credit Hours
+ HART 2442	Commercial Refrigeration	4
+ HART 1449	Heat Pumps	4
+ HART 2441	Commercial Air Conditioning	4
SPCH 1311	Introduction to Speech Communication	3
+	Humanities/Fine Arts <sup>3</sup>	3-5
		-----
		18-20

Semester IV		Credit Hours
+ HART 2443	Industrial Air Conditioning	4
+ HART 2445	Air Conditioning Systems Design	4
+ HART 1491	Special Topics in Heating, Air Conditioning, and Refrigeration — Air Conditioning Mechanical Codes	4
+ # HART 2288	Internship—Heating, Air Conditioning, Refrigeration Mechanic	2
		-----
		14

**TOTALS** **65-67**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Any of the Computational Skills (MATH) courses may be substituted for MATH 1314.

<sup>2</sup> Select from Social & Behavioral Science section of the General Education Course list.

<sup>3</sup> Select from Humanities/Fine Arts section of the General Education Course list.

## Heating, Air Conditioning, and Refrigeration Technology

### Certificate

The Air Conditioning and Refrigeration Certificate program provides the basics of service and repair. It is best suited for the individual desiring to enter the field with a minimum of formal training. All courses in the one-year certificate can be applied toward the ACR Associate degree.

Semester I		Credit Hours
CETT 1402	Electricity Principles	4
+ MATH 1314	College Algebra <sup>1</sup>	3
HART 1407	Refrigeration Principles	4
ENGL 1301	English Composition I	3
+ HART 1403	A/C Control Principles	4
		-----
		18
Semester II		Credit Hours
+ HART 1441	Residential Air Conditioning	4
+ HART 1445	Gas and Electric Heating	4
+ HART 2431	Advanced Electricity	4
+ # HART 2288	Internship—Heating, Air Conditioning, Refrigeration Mechanic	2
		-----
		14
<b>TOTALS</b>		<b>32</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Any of the Computational Skills (MATH) courses may be substituted for MATH 1314.

## HISTORY

### History

#### Associate of Arts Degree

The Associate of Arts degree in History is intended to provide students with the first two years of United States History and Western Civilization, in addition to a broad selection of liberal arts courses transferable to a four-year institution.

Semester I	Credit Hours
ENGL 1301 English Composition I	3
History <sup>1</sup>	3
+ MATH 1332 College Mathematics	3
Foreign Language <sup>2</sup>	3-5
Elective <sup>3</sup>	3
	-----
	15-17
<b>Semester II</b>	
+ ENGL 1302 English Composition II	3
History <sup>4</sup>	3
+ Natural Science <sup>5</sup>	3-4
+ Foreign Language <sup>2</sup>	3-5
Elective <sup>3</sup>	3
	-----
	15-18
<b>Semester III</b>	
History <sup>6</sup>	3
GOVT 2305 United States Government	3
+ Literature <sup>7</sup>	3
+ Humanities <sup>8</sup>	3
General Elective <sup>9</sup>	3-6
	-----
	15-18
<b>Semester IV</b>	
History <sup>10</sup>	3
GOVT 2306 Texas State and Local Government	3
Unrestricted Elective	3
General Elective <sup>9</sup>	3
SPCH 1315 Fundamentals of Public Speaking	3
	-----
	15
	-----
<b>TOTALS</b>	<b>60-68</b>

+ Prerequisites: See Course Descriptions.

<sup>0</sup> Students who plan to transfer and continue their study of history at a four-year institution should refer to the catalog of the institution to which they plan to transfer and consult with a full-time ACC history instructor. To satisfy the legislative requirement, a student must take 6 hours of American History with a grade of C or better. Students may select from HIST 1301, HIST 2381, HIST 2380, HIST 1302, HIS 1643, HIS 1663, HIST 2301, or HIST 2341. Courses may be taken in any order. You may take HIST 1302 (or its equivalents) before HIST 1301 (or its equivalent).

<sup>1</sup> Select from the following courses: HIST 1301, HIST 2381, HIST 2380, HIST 2301, HIST 2341. HIST 2301 may be taken only once but HIST 2341 may be repeated for credit when the topic varies.

<sup>2</sup> Foreign language hours must be taken in the same language.

<sup>3</sup> General Electives: Although these courses may be selected from any program, students planning to transfer to a four-year institution are advised to choose electives from Arts and Sciences courses applicable to their four-year degree. Students are encouraged to satisfy the Speech, Natural Sciences, and Social/Behavioral section of the Core Curriculum.

<sup>4</sup> Select from the following: HIST 1032, HIST 2381, HIST 2380, HIST 2301, HIST 2341.

<sup>5</sup> Select from Natural Science section of the General Education Course list.

<sup>6</sup> Select from the following: HIST 2311, HIST 2331, HIS 2653.

<sup>7</sup> Select from the following: ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2342.

<sup>8</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>9</sup> General Electives: If students are beginning the study of a foreign language in their first year of college, it is recommended they continue this foreign language through the fourth semester level.

<sup>10</sup> Select from the following: HIST 2312, HIST 2332, HIS 2663.

## HISTOTECHNOLOGY

An Associate of Applied Science degree awarded by Harford Community College in Science Laboratory Technology: Histotechnology is available to ACC students through an official articulation agreement. All academic courses can be taken at ACC. Once students complete the 49-50 hours of recommended ACC coursework and are admitted to Harford, they will complete the clinical portion of the program at Seton Hospital in Austin and 15 hours of histotechnology coursework through distance learning at Harford. For more information about this program, including a listing of recommended ACC coursework, contact the ACC Health Science department.

# Hospitality Management

## HOSPITALITY MANAGEMENT

### Baccalaureate Prep Specialization

#### Associate of Applied Science Degree

Semester I	Credit Hours
HAMG 1321 Introduction to Hospitality Industry	3
Restricted Elective <sup>1</sup>	3
IFWA 1213 Sanitation and Safety	2
HIST 1301 United States History I	3
ENGL 1301 English Composition I	3
+ MATH 1314 College Algebra	3
	-----
	17
<b>Semester II</b>	
+ ENGL 1302 English Composition II	3
Restricted Elective <sup>1</sup>	3
+ Mathematics	3
HIST 1302 United States History II	3
HAMG 1324 Hospitality Human Resources Management	3
GOVT 2306 Texas State and Local Government	3
	-----
	18
<b>Semester III</b>	
Restricted Elective <sup>1</sup>	3
ECON 2301 Principles of Macroeconomics	3
+ Natural Science <sup>2</sup>	3
United States Government	3
+ Humanities/Fine Arts <sup>3</sup>	3
	-----
	15
<b>Semester IV</b>	
HAMG 1313 Front Office Procedures	3
Restricted Elective <sup>1</sup>	3
Oral Communication <sup>4</sup>	3
+ Natural Science <sup>2</sup>	3
Visual or Performing Arts <sup>3</sup>	3
	-----
	15
	-----
<b>TOTALS</b>	<b>65</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup>Select courses from the following areas: HAMG, CULA, TRVM.

<sup>2</sup>Physical and/or Biological science must be chosen from the following: BIOL, CHEM, GEOL, PHYS. Both sciences must be from the same department.

<sup>3</sup>This includes a Visual and Performing Arts course, an additional Humanities course, and an additional Social and Behavioral Science course. Consult the catalog core curriculum for a list of acceptable courses.

<sup>4</sup>Select from Oral Communications section of the General Education Course list.

## Hotel Specialization

### Associate of Applied Science Degree

Semester I	Credit Hours
HAMG 1321 Introduction to Hospitality Industry	3
IFWA 1217 Food Production and Planning (Math)	2
FDNS 1301 Introduction to Foods	3
IFWA 1213 Sanitation and Safety	2
ENGL 1301 English Composition I	3
+ MATH 1332 College Mathematics	3
	-----
	16
<b>Semester II</b>	
HAMG 1313 Front Office Procedures	3
HAMG 2332 Hospitality Financial Management	3
RSTO 1304 Dining Room Service	3
HAMG 1219 Computers in Hospitality	2
DITA 2331 Purchasing, Receiving and Storage of Food	3
Restricted Elective <sup>1</sup>	3
	-----
	17
<b>Semester III</b>	
+ CULA 1341 American Regional Cuisine	3
Oral Communication <sup>2</sup>	3
Social and Behavioral Science <sup>3</sup>	3
HAMG 1324 Hospitality Human Resources Management	3
Restricted Elective <sup>1</sup>	3
	-----
	15
<b>Semester IV</b>	
+# HAMG 2389 Internship–Hospitality Administration and Management	3
HAMG 2305 Hospitality Management and Leadership	3
Restricted Elective <sup>1</sup>	3
Restricted Elective <sup>1</sup>	3
Humanities/Fine Arts <sup>3</sup>	3
	-----
	15
	-----
<b>TOTALS</b>	<b>63</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup>Select courses from the following areas: HAMG, CULA, TRVM.

<sup>2</sup>Select from Oral Communication section of the General Education Course list.

<sup>3</sup>This includes a Visual and Performing Arts course, an additional Humanities course, and an additional Social and Behavioral Science course. Consult the catalog core curriculum for a list of acceptable courses.

# Hospitality Management

## Restaurant Specialization

### Associate of Applied Science Degree

This program is designed to prepare students for careers in various hospitality industries such as motels, hotels, restaurants, hospitals, nursing homes and any other institutions that prepare and serve food to customers or clients. Graduates of this program will be qualified to successfully fill a multitude of positions in the food service industry including administrative and managerial assignments. Students will initially be able to exit the program with an Associate of Applied Science Degree or Advanced Skills Tech Prep Degree in Hospitality Management.

<b>Semester I</b>	<b>Credit Hours</b>
HAMG 1321 Introduction to Hospitality Industry	3
IFWA 1217 Food Production and Planning (Math)	2
FDNS 1301 Introduction to Foods	3
IFWA 1213 Sanitation and Safety	2
<b>ENGL 1301</b> English Composition I	3
+ <b>MATH 1332</b> College Mathematics	3
	-----
	16
<b>Semester II</b>	
HAMG 1313 Front Office Procedures	3
HAMG 2332 Hospitality Financial Management	3
RSTO 1304 Dining Room Service	3
HAMG 1219 Computers in Hospitality	2
DITA 2331 Purchasing, Receiving and Storage of Food	3
RSTO 1317 Nutrition for the Food Service Professional	3
	-----
	17
<b>Semester III</b>	
+ CULA 1341 American Regional Cuisine	3
Oral Communication <sup>1</sup>	3
Social and Behavioral Science <sup>2</sup>	3
HAMG 1324 Hospitality Human Resources Management	3
Restricted Elective <sup>3</sup>	3
	-----
	15
<b>Semester IV</b>	
+# HAMG 2389 Internship–Hospitality Administration and Management	3
HAMG 2305 Hospitality Management and Leadership	3
Restricted Elective <sup>3</sup>	3
Restricted Elective <sup>3</sup>	3
Humanities/Fine Arts <sup>2</sup>	3
	-----
	15
	-----
<b>TOTALS</b>	<b>63</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Oral Communication section of the General Education Course list.

<sup>2</sup> This includes a Visual and Performing Arts course, an additional Humanities course, and an additional Social and Behavioral Science course. Consult the catalog core curriculum for a list of acceptable courses.

<sup>3</sup> Select courses from the following rubrics: HAMG, CULA, TRVM.

## Hospitality Management

### Certificate

<b>Semester I</b>	<b>Credit Hours</b>
HAMG 1321 Introduction to Hospitality Industry	3
IFWA 1217 Food Production and Planning (Math)	2
FDNS 1301 Introduction to Foods	3
IFWA 1213 Sanitation and Safety	2
	-----
	10
<b>Semester II</b>	
RSTO 1304 Dining Room Service	3
HAMG 1219 Computers in Hospitality	2
Restricted Elective <sup>1</sup>	3
+# CULA 1341 American Regional Cuisine	3
	-----
	11
	-----
<b>TOTALS</b>	<b>21</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

# Human Services

## HUMAN SERVICES

The Human Services program is designed to prepare direct-service workers for employment in public and private agencies. The course of study offers an interdisciplinary combination of both theory and the practical applications of theory, including two internships that serve to expose students to the realities of their chosen field.

Students are offered a variety of options. Associate Degree options are available in General Human Services, Interpreter Preparation, Addictions Counseling, and Therapeutic Recreation. One-year certificate programs are offered in Sign Language Studies, Interpreter Preparation, Addictions Counseling and Therapeutic Recreation. Completion of the associate degree or one-year certificate in Interpreter Preparation gives the student the foundation for certification by the Texas Board of Evaluation of Interpreters (BEI). Completion of the associate degree or one-year certificate in Addictions Counseling leads to partial fulfillment of the requirements for certification by the Texas Commission on Alcoholism and Drug Abuse (TCADA) as a Licensed Chemical Dependency Counselor (LCDC). Completion of the associate degree or one-year certificate in Therapeutic Recreation leads to eligibility for certification by the Consortium for Therapeutic Recreation Activities Certification as a Certified Therapeutic Recreation Assistant (TRA/TXC).

Students completing the programs can seek employment, depending on their specialty area, as interpreters, chemical dependency counselors, assistant social workers, therapy specialists in treatment facilities, activity directors, therapeutic recreation assistants, community program leaders, teacher aides, and other human services providers. Although the degree is designed to prepare students for immediate employment, many students choose to continue their human services education at four-year colleges. Since not all colleges accept vocational/technical courses for transfer, students should consult with the Department Chair for Human Services prior to enrollment.

## General Human Services

### Associate of Applied Science Degree

The required course work in this degree option is designed to provide students with basic skills necessary for employment in a wide variety of social service settings. Electives chosen in coordination with a Human Services department advisor allow the student to plan a degree that is individually tailored to meet each student's career objectives. Students planning to transfer to four-year institutions should consult with the Department Chair for Human Services for information on transferable course work.

<b>Semester I</b>		<b>Credit Hours</b>
<b>ENGL 1301</b>	English Composition I	3
<b>PSYC 2301</b>	Introduction to Psychology	3
<b>PSYT 1303</b>	Dynamics of Human Relations	3
<b>SCWK 1321</b>	Orientation to Social Services	3
<b>PSYT 2339</b>	Counseling Theories	3
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		15
<b>Semester II</b>		
+	<b>PSYC 2314</b> Human Growth and Development OR	3
	<b>SCWK 1301</b> Adolescent Life Cycle	
	<b>SCWK 1391</b> Special Topics in Social Work—Ethical Issues in Human Services	3
	<b>PSYT 1345</b> Principles of Behavior Management and Modification	3
	Human Services Elective <sup>1</sup>	6-7
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		15-16
<b>Semester III</b>		
	<b>CMSW 1323</b> The Exceptional Person	3
+	<b>SCWK 2486</b> Internship I <sup>2</sup>	4
	Therapeutic Recreation Elective <sup>3</sup>	3
	<b>DAAC 1319</b> Introduction to Alcohol and Other Addictions	3
	Human Services Elective <sup>1</sup>	3-4
		-----
		16-17
<b>Semester IV</b>		
+#	<b>SCWK 2487</b> Internship II <sup>2</sup>	4
	Mathematics <sup>3</sup>	3
	Human Services Elective <sup>1</sup>	3
	Humanities Elective <sup>4</sup>	3
	<b>SPCH 1311</b> Introduction to Speech Communication	
	OR	3
	<b>SPCH 1315</b> Fundamentals of Public Speaking	
		-----
		16
<b>TOTALS</b>		<b>62-64</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from the following: +DAAC 1307, +DAAC 1391, PSYC 2306, PSYT 1394, RECT 1341, RECT 1342, +SCWK 1305, SCWK 2331, SLNG 1404, +SLNG 1405.

<sup>2</sup> Students must obtain department approval in semester prior to enrollment.

<sup>3</sup> Select from the following: RECT 1301, RECT 1341, RECT 1342.

<sup>4</sup> Select from the following: MATH 1314, MATH 1332, or MATH 1342.

<sup>5</sup> Select from Humanities/Fine Arts section of the General Education Course list.

# Human Services

## Addictions Counseling

### Associate of Applied Science Degree

This degree option prepares students for careers in counseling and direct care work in the addictions field. The program prepares students for partial fulfillment of state licensure (LCDC) for alcoholism and drug abuse counselors. Eligibility is subject to approval by the appropriate state agency.

<b>Semester I</b>		<b>Credit Hours</b>
ENGL 1301	English Composition I	3
PSYC 2301	Introduction to Psychology	3
PSYT 1303	Dynamics of Human Relations	3
SCWK 1321	Orientation to Social Services	3
DAAC 1319	Introduction to Alcohol and Other Addictions	3
		-----
		15
<b>Semester II</b>		
	Therapeutic Recreation Elective <sup>1</sup>	3
SCWK 1391	Special Topics in Social Work–Ethical Issues in Human Services	3
PSYT 2339	Counseling Theories	3
PSYT 1345	Principles of Behavior Management and Modification	3
+ SCWK 2331	Abnormal Behavior	3
+ DAAC 1307	Addicted Family Intervention	3
		-----
		18
<b>Semester III</b>		
+ SCWK 1305	Group Work Intervention	3
	CMSW 1323 The Exceptional Person	3
+ SCWK 2486	Internship I <sup>2</sup>	4
+ PSYC 2314	Human Growth and Development <b>OR</b>	3
	SCWK 1301 Adolescent Life Cycle	
+ DAAC 1391	Special Topics in Alcohol/Drug Counseling–Substance Abuse Treatment Models	3
		-----
		16
<b>Semester IV</b>		
SPCH 1311	Introduction to Speech Communication <b>OR</b>	3
	SPCH 1315 Fundamentals of Public Speaking	
+	Mathematics <sup>3</sup>	3
+# SCWK 2487	Internship II <sup>2</sup>	4
PSYT 1394	Special Topics: Counseling Skills & Issues	3
+	Humanities Elective <sup>4</sup>	3
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		16
<b>TOTALS</b>		<b>65</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup>Select from the following: RECT 1301, RECT 1341, RECT 1342

<sup>2</sup>Student must obtain department approval in semester prior to enrollment.

<sup>3</sup>Select from the following: MATH 1314, MATH 1332, or MATH 1342.

<sup>4</sup>Select from Humanities/Fine Arts section of the General Education Course list.

## Addictions Counseling

### Certificate

This certificate option prepares students for careers in counseling and direct care work in the addictions field. The program prepares students for partial fulfillment of state licensure (LCDC) for alcoholism and drug abuse counselors. Eligibility is subject to approval by the appropriate state agency.

<b>Semester I</b>		<b>Credit Hours</b>
PSYT 1303	Dynamics of Human Relations	3
DAAC 1319	Introduction to Alcohol and Other Addictions	3
PSYT 1345	Principles of Behavior Management and Modification	3
PSYT 2339	Counseling Theories	3
SCWK 1391	Special Topics in Social Work–Ethical Issues in Human Services	3
		-----
		15
<b>Semester II</b>		
+ DAAC 1307	Addicted Family Intervention	3
+ DAAC 1391	Special Topics in Alcohol/Drug Counseling–Substance Abuse Treatment Models	3
+ SCWK 2486	Internship I <sup>1</sup>	4
	Human Services Elective <sup>2</sup>	3
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		13
<b>Semester III</b>		
+# SCWK 2487	Internship II <sup>1</sup>	4
	Human Services Elective <sup>2</sup>	3
		-----
		7
<b>TOTALS</b>		<b>35</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup>Student must obtain department approval in semester prior to enrollment.

<sup>2</sup>Select from the following: PSYC 2306, +PSYT 1394, RECT 1301, +SCWK 1305, SCWK 2307, +SCWK 2331, SWCK 1321, CMSW 1321.

# Human Services

## Interpreter Preparation Program

### Associate of Applied Science Degree

	Credit Hours
<b>Prior to Acceptance &amp; Enrollment in SLNG 2401</b>	
ENGL 1301 English Composition I	3
SLNG 1404 American Sign Language–Beginning I	4
+ SLNG 1405 American Sign Language–Beginning II	4
+ SLNG 1444 American Sign Language–Intermediate I	4
	-----
	15
<b>Semester I</b>	
+ SLNG 1445 American Sign Language–Intermediate II	4
+ SLNG 2401 Interpreting I	4
PSYT 1303 Dynamics of Human Relations	3
+ SLNG 1391 Special Topics in Sign Language Interpreter–American Sign Language V	3
	-----
	14
<b>Semester II</b>	
SLNG 1321 Introduction to the Interpreting Profession	3
+ SLNG 2402 Interpreting II	4
SLNG 1317 Introduction to the Deaf Community	3
SLNG 1371 American Sign Language VI	3
	-----
	13
<b>Semester III</b>	
+ SLNG 2315 Interpreting in Educational Settings	3
+ SLNG 2431 Interpreting III	4
SPCH 1315 Fundamentals of Public Speaking	3
+ Humanities <sup>1</sup>	3
	-----
	13
<b>Semester IV</b>	
Social and Behavioral Science <sup>2</sup>	3
+ MATH 1314 College Algebra OR	3
+ MATH 1332 College Mathematics	3
+ SLNG 2311 Specialized Interpreting/Transliterating	3
Restricted Elective <sup>3</sup>	3
	-----
	12
<b>Semester V</b>	
+# SLNG 2488 Internship–Sign Language Interpreter <sup>4</sup>	4
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	4
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<b>TOTALS</b>	<b>71</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from the following: LATI 1511, PHIL 1301, PHIL 2303, PHIL 2306.

<sup>2</sup> Select from the following: ANTH 2301, ANTH 2351, HIST 1301, PSYC 2301, SOCI 1301.

<sup>3</sup> Restricted electives: HPRS 1206, CMSW 1323, DAAC 1319, LGLA 1311, SCWK 2307.

<sup>4</sup> Students must obtain department approval in semester prior to enrollment.

## Interpreter Preparation Program

### Certificate

	Credit Hours
<b>Prior to Acceptance &amp; Enrollment in SLNG 2401</b>	
ENGL 1301 English Composition I	3
SLNG 1404 American Sign Language–Beginning I	4
+ SLNG 1405 American Sign Language–Beginning II	4
+ SLNG 1444 American Sign Language–Intermediate I	4
	-----
	15
<b>Semester I</b>	
+ SLNG 1445 American Sign Language–Intermediate II	4
+ SLNG 2401 Interpreting I	4
PSYT 1303 Dynamics of Human Relations	3
	-----
	11
<b>Semester II</b>	
SLNG 1321 Introduction to the Interpreting Profession	3
+ SLNG 2402 Interpreting II	4
+ SLNG 2315 Interpreting in Educational Settings	3
+ SLNG 1391 Special Topics in Sign Language Interpreter–American Sign Language V	3
	-----
	13
<b>Semester III</b>	
SLNG 1317 Introduction to the Deaf Community	3
+ SLNG 2431 Interpreting III	4
Restricted Elective <sup>1</sup>	3
+# SLNG 2488 Internship–Sign Language Interpreter <sup>2</sup>	4
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	14
	-----
<b>TOTALS</b>	<b>53</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Restricted electives: HPRS 1206, CMSW 1323, DAAC 1319, SLNG 2311, SLNG 2392, +SCWK 2307, LGLA 1311.

<sup>2</sup> Student must obtain departmental approval in the semester prior to enrollment.

## American Sign Language Studies

### Certificate

	Credit Hours
<b>Semester I</b>	
SLNG 1404 American Sign Language–Beginning I	4
	-----
	4
<b>Semester II</b>	
+ SLNG 1405 American Sign Language–Beginning II	4
SLNG 1317 Introduction to the Deaf Community	3
	-----
	7

## Semester III

+ SLNG 1444	American Sign Language–Intermediate I	4
+# SLNG 1445	American Sign Language–Intermediate II	4
		-----
		8

**TOTALS** **19**

+ Prerequisites: See Course Descriptions.

# Capstone course

## Therapeutic Recreation

### Associate of Applied Science Degree

Therapeutic Recreation is a specialized area of Human Services. Students completing this degree will be prepared to apply recreation and experiential activities that assist in maintaining or improving the health status, functional capacities, and ultimately the quality of life for people with disabilities, chemical dependencies, offenders, the aged and others. Therapeutic Recreation has joined other adjunct therapies as a nationally recognized profession in the Allied Health and Human Services fields. Students completing the AAS degree may apply to the Consortium for Therapeutic Recreational Activities Certification as a Certified Therapeutic Recreation Assistant (TRA/TXC).

## Semester I Credit Hours

ENGL 1301	English Composition I	3
PSYC 2301	Introduction to Psychology	3
PSYT 1303	Dynamics of Human Relations	3
SCWK 1321	Orientation to Social Services	3
RECT 1301	Introduction to Therapeutic Recreation	3
		-----
		15

## Semester II

+ PSYC 2314	Human Growth and Development OR	3
SCWK 1301	Adolescent Life Cycle	
SCWK 1391	Special Topics in Social Work–Ethical Issues in Human Services	3
PSYT 2339	Counseling Theories	3
RECT 1341	Therapeutic Recreation Leadership I	3
PSYT 1345	Principles of Behavior Management and Modification	3
		-----
		15

## Semester III

CMSW 1323	The Exceptional Person	3
RECT 1342	Therapeutic Recreation Leadership II	3
+ RECT 2431	Therapeutic Recreation Program Planning	4
SPCH 1311	Introduction to Speech Communication OR	3
SPCH 1315	Fundamentals of Public Speaking Restricted Elective <sup>1</sup>	3-4
		-----
		16-17

## Semester IV

	Mathematics <sup>2</sup>	3
+ SCWK 2486	Internship I <sup>3</sup>	4
	Humanities/Fine Arts <sup>4</sup>	3
	Restricted Elective <sup>1</sup>	6-7
		-----
		16-17

## Semester V

+# SCWK 2487	Internship II <sup>3</sup>	4
		-----
		4

**TOTALS** **66-68**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from the following: BIOL 2401 (BIO 1714), DAAC 1319, +PSYT 1394, +SCWK 1305, +SCWK 2307, +SCWK 2331, SLNG 1404, +SLNG 1405, Kinesiology activities courses (selected activity sections), KINE 1108, KINE 1306, KINE 2155.

<sup>2</sup> Select from the following: MATH 1314, MATH 1332, or MATH 1342.

<sup>3</sup> Student must obtain department approval in semester prior to enrollment.

<sup>4</sup> Select from Humanities/Fine Arts section of the General Education Course list.

## Therapeutic Recreation

### Certificate

Students completing the certificate in therapeutic recreation with an extended internship are eligible for certification with the Consortium for Therapeutic Recreation Activities Certification as a Certified Therapeutic Recreation Assistant (TRA/TXC).

## Semester I Credit Hours

PSYT 1303	Dynamics of Human Relations	3
PSYC 2301	Introduction to Psychology	3
RECT 1301	Introduction to Therapeutic Recreation	3
RECT 1341	Therapeutic Recreation Leadership I	3
+ PSYC 2314	Human Growth and Development OR	3
SCWK 1301	Adolescent Life Cycle	
		-----
		15

## Semester II

+ RECT 2431	Therapeutic Recreation Program Planning	4
RECT 1342	Therapeutic Recreation Leadership II	3
PSYT 1345	Principles of Behavior Management and Modification	3
+ SCWK 2486	Internship I <sup>1</sup>	4
		-----
		14

## Semester III

CMSW 1323	The Exceptional Person	3
+# SCWK 2487	Internship II <sup>1</sup>	4
		-----
		7

**TOTALS** **36**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Student must obtain department approval in semester prior to enrollment.

## International Business

### Certificate

For more information, please see <http://www.austincc.edu/intlbus>

<b>Semester I</b>		<b>Credit Hours</b>
BUSI 1301	Introduction to Business <sup>1</sup>	6
MRKG 1311	Principles of Marketing <sup>1</sup>	
BMGT 1303	Principles of Management <sup>1</sup>	
BMGT 1341	Business Ethics	3
ACCT 2301	Principles of Financial Accounting <sup>2</sup> OR	3-4
ACNT 1403	Introduction to Accounting I	
ENGL 1301	English Composition I <sup>3</sup> OR	3
+ POFT 1302	Business Communications I	
COSC 1301	Personal Computing OR	3
BCIS 1305	Business Computer Applications	
		18-19
<b>Semester II</b>		
IBUS 1305	Introduction to International Business and Trade	3
IBUS 1301	Principles of Imports-Exports I	3
IBUS 1302	Principles of Imports-Exports II	3
	Restricted Elective <sup>4</sup>	3
	Restricted Elective <sup>4</sup>	3
# IBUS 1391	Special Topics in International Business—Practice Firm OR	3
+# IBUS 1366	Practicum or Field Experience—International Business <sup>5</sup>	
		18
<b>TOTALS</b>		<b>36-37</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Students will take two of the three courses. BUSI 1301 is recommended for those without any business experience.

<sup>2</sup> Students should take ACCT 2301 if they intend to transfer to a 4-year institution.

<sup>3</sup> Students should take ENGL 1301 if they intend to transfer to a 4-year institution.

<sup>4</sup> IBUS Electives include: IBUS 1354, IBUS 2339, IBUS 2335, IBUS 2345.

<sup>5</sup> Requires department chair approval.

## JEWELRY

### Jewelry

#### Associate of Applied Science Degree

This degree prepares the student for a career as a bench jewelry technician. It provides specialized focus on jewelry fabrication, stonemasonry, lost wax casting and repair. The coursework is designed to provide the student with skills necessary for a career in the jewelry industry. Graduates will be prepared to take the national certification test for Bench Jeweler Technician administered by the Jewelers of America, Inc.

<b>Semester I</b>		<b>Credit Hours</b>
HRGY 1401	Jewelry Techniques I	4
HRGY 1448	Jewelry Repair/Fabrication I	4
+ HRGY 1441	Stonemasonry I	4
ENGL 1301	English Composition I	3
ARTS 1303	Art History I	3
		18
<b>Semester II</b>		
+ HRGY 1402	Jewelry Techniques II	4
+ HRGY 1409	Jewelry Casting I	4
+ HRGY 1449	Jewelry Repair/Fabrication II	4
COSC 1301	Personal Computing	3
+ MATH 1333	Mathematics for Measurement	3
		18
<b>Semester III</b>		
+ HRGY 2435	Precious Metals I	4
+ HRGY 2433	Jewelry Casting II	4
+ HRGY 1442	Stonemasonry II	4
SPCH 1318	Interpersonal Communication	3
ARTS 1301	Introduction to The Visual Arts	3
		18
<b>Semester IV</b>		
+ HRGY 1417	Applied Jewelry Practices	4
	Social and Behavioral Science	3
+ HRGY 1491	Special Topics in Watch, Clock, and Jewelry Repairer—Industry Practices	4
+# HRGY 2436	Precious Metals II	4
		15
<b>TOTALS</b>		<b>69</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Jewelry

### Certificate

This certificate will provide the student with training in the skills used in the jewelry industry. The student will learn essential methods for the production and repair of jewelry. All of the courses can be applied towards the Associate of Applied Science degree in Jewelry.

Semester I	Credit Hours
HRGY 1401 Jewelry Techniques I	4
+ HRGY 1409 Jewelry Casting I	4
	8
Semester II	Credit Hours
+ HRGY 1441 Stonesetting I	4
# HRGY 1448 Jewelry Repair/Fabrication I	4
	8
	16

+ Prerequisites: See Course Descriptions.

# Capstone course

## JOURNALISM

### Journalism

#### Associate of Arts Degree

The Associate of Arts degree provides students with the first two years of Liberal Arts education with an emphasis on Journalism.

Semester I	Credit Hours
<b>ENGL 1301</b> English Composition I	3
<b>HIST 1301</b> United States History I	3
Foreign Language <sup>1</sup>	5
COMM1307 Introduction to Mass Communications	3
COSC 1300 Introduction to Computing OR	3
COSC 1301 Personal Computing	3
	17
Semester II	Credit Hours
+ <b>ENGL 1302</b> English Composition II	3
<b>HIST 1302</b> United States History II	3
+ Foreign Language <sup>1</sup>	5
+ COMM2311 News Reporting I	3
	14
Semester III	Credit Hours
<b>GOVT 2305</b> United States Government	3
+ Literature <sup>2</sup>	3
+ Natural Science <sup>3</sup>	3-4
+ COMM2305 Copy Editing	3
Oral Communication <sup>4</sup>	3
	15-16
Semester IV	Credit Hours
<b>GOVT 2306</b> Texas State and Local Government	3
+ Mathematics <sup>3</sup>	3
+ Natural Science <sup>3</sup>	3-4
Visual and Performing Arts <sup>5</sup>	3
Social and Behavioral Science <sup>6</sup>	3
	15-16
	61-63

+ Prerequisites: See Course Descriptions.

<sup>1</sup> The foreign language hours must be in the same language.

<sup>2</sup> The literature course must be chosen from the following: ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342.

<sup>3</sup> The Math/Natural Science requirement may be satisfied by any Math/ Natural Science course from the Core Curriculum.

<sup>4</sup> The speech course must be chosen from SPCH 1311 or SPCH 1315.

<sup>5</sup> Select from the Visual and Performing Arts section of the Core Curriculum Course list.

<sup>6</sup> Select from the Other Social and Behavioral Sciences section of the Core Curriculum Course list.

# Land Surveying Technology

## LAND SURVEYING TECHNOLOGY

### Land Surveying Technology/ Geomatics

#### Associate of Applied Science Degree

This program is designed to prepare the student for employment in surveying at a technician level and for certification by the Texas Board of Land Surveying as a Surveyor in Training. It is intended to provide enough general education and the supporting related academic work so that the student is prepared to advance through further application and study to registration as a Public Surveyor. Formerly Geomatics/Land Surveying Technology.

Semester I	Credit Hours
SRVY 1301 Introduction to Surveying	3
<b>ENGL 1301</b> English Composition I	3
SRVY 2343 Surveying Legal Principles I	3
COSC 1301 Personal Computing	3
<b>SPCH 1311</b> Introduction to Speech Communication	3
	-----
	15
<b>Semester II</b>	
+ ENGL 2311 Technical & Business Writing	3
+ <b>MATH 1314</b> College Algebra	3
+ SRVY 1341 Land Surveying	3
+ SRVY 1345 Land Surveying Applications–Lab	3
DFTG 1405 Technical Drafting	4
	-----
	16
<b>Semester III</b>	
+ <b>MATH 1316</b> Trigonometry	3
+ SRVY 2339 Engineering Design Surveying	3
+ SRVY 2341 Engineering Design Surveying Lab	3
<b>GOVT 2306</b> Texas State and Local Government	3
DFTG 2430 Civil Drafting	4
	-----
	16
<b>Semester IV</b>	
+ SRVY 2344 Surveying Legal Principles II	3
+ GEOG 1410 Introduction to Geographic Information Systems <sup>1</sup>	4
+# SRVY 2486 Internship–Surveying	4
+ Humanities/Fine Arts <sup>2</sup>	3
Unrestricted Elective	3
	-----
	17
	-----
<b>TOTALS</b>	<b>64</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Substitutes for DFTG 2472.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list.

## Land Surveying Technology/ Geomatics

### Certificate

Formerly Geomatics/Land Surveying Technology

Semester I	Credit Hours
+ <b>MATH 1314</b> College Algebra	3
SRVY 1301 Introduction to Surveying	3
SRVY 2343 Surveying Legal Principles I	3
DFTG 1405 Technical Drafting	4
	-----
	13
<b>Semester II</b>	
+ SRVY 1341 Land Surveying	3
+ SRVY 1345 Land Surveying Applications–Lab	3
	-----
	6
<b>Semester III</b>	
+# SRVY 2339 Engineering Design Surveying	3
+ SRVY 2341 Engineering Design Surveying Lab	3
+ SRVY 2344 Surveying Legal Principles II	3
DFTG 2430 Civil Drafting	4
	-----
	13
	-----
<b>TOTALS</b>	<b>32</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## LEGAL ASSISTANT

### Legal Assistant

#### Associate of Applied Science Degree

This degree program is designed to prepare the student to act effectively as a legal assistant (paralegal) in a law office, government agency, or other law-related environment.

<b>Semester I</b>		<b>Credit Hours</b>
+ LGLA 1313	Introduction to Paralegal Studies	3
<b>ENGL 1301</b>	English Composition I	3
<b>GOVT 2305</b>	United States Government	3
+	Mathematics <sup>1</sup>	3
+	Humanities/Fine Arts <sup>2</sup>	3
		-----
		15
<b>Semester II</b>		
+ LGLA 1351	Contracts	3
+ LGLA 1303	Legal Research	3
<b>GOVT 2306</b>	Texas State and Local Government	3
+ LGLA 1305	Legal Writing	3
<b>SPCH 1311</b>	Introduction to Speech Communication	3
		-----
		15
<b>Semester III</b>		
+ LGLA 1346	Civil Litigation I	3
+ LGLA 1355	Family Law	3
+ LGLA 2309	Real Property	3
+ LGLA 1353	Wills, Trusts and Probate Administration	3
+ LGLA 2333	Advanced Legal Document Preparation	3
+	Natural Science <sup>3</sup>	3
		-----
		18
<b>Semester IV</b>		
+ LGLA 1347	Civil Litigation II	3
+# LGLA 2388	Internship–Paralegal/Legal Assistant	3
+ LGLA 2331	Advanced Legal Research and Writing	3
	Restricted Elective <sup>4</sup>	3
	Restricted Elective <sup>4</sup>	3
	Restricted Elective <sup>4</sup>	3
		-----
		18
<b>TOTALS</b>		<b>66</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from the following: MATH 1314, MATH 1342, MATH 1332.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list.

<sup>3</sup> Select from the following: PSC 1613, BIOL 1309, BIOL 2306.

<sup>4</sup> Select from the following restricted electives: LGLA 1311, LGLA 1317, LGLA 1341, LGLA 1343, LGLA 1349, LGLA 1391, LGLA 2303, LGLA 2305, LGLA 2313, LGLA 2335, LGLA 2337, LGLA 2339, LGLA 2388.

## Legal Assistant

### Advanced Technical Certificate

This certificate program is ONLY AVAILABLE TO STUDENTS WHO POSSESS A BACHELOR DEGREE from an accredited college or university. It is designed to prepare the student to act effectively as a legal assistant (paralegal) in a law office, government agency, or other law-related environment.

<b>Semester I</b>		<b>Credit Hours</b>
+ LGLA 1313	Introduction to Paralegal Studies	3
+ LGLA 1351	Contracts	3
+ LGLA 1303	Legal Research	3
+ LGLA 1346	Civil Litigation I	3
		-----
		12
<b>Semester II</b>		
+ LGLA 1347	Civil Litigation II	3
+ LGLA 1355	Family Law	3
+ LGLA 2309	Real Property	3
+ LGLA 2333	Advanced Legal Document Preparation	3
		-----
		12
<b>Semester III</b>		
+ LGLA 1353	Wills, Trusts and Probate Administration	3
+ LGLA 2331	Advanced Legal Research and Writing	3
+# LGLA 2388	Internship–Paralegal/Legal Assistant	3
	Restricted Elective	3
		-----
		12
<b>TOTALS</b>		<b>36</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Restricted Electives: LGLA 1317, LGLA 1341, LGLA 1343, LGLA 1349, LGLA 1391, LGLA 2303, LGLA 2305, LGLA 2313, LGLA 2335, LGLA 2337, LGLA 2239, or LGLA 2388.

# Management

## MANAGEMENT

### Management

#### Associate of Applied Science Degree

Management is a two-year college program that includes individual management courses and specialized courses appropriate to individual academic interest, current or future work activities, and/or possible transfer to other colleges or universities. It is strongly recommended that you contact ACC counselors and/or colleges or universities you may wish to transfer ACC courses to prior to taking these courses.

Two Management Certificate Programs are also offered. Graduates of the Management AAS may wish to pursue a four-year non-traditional occupational education degree (Bachelors of Applied Arts and Science, BAAS).

Students desiring to pursue a traditional, Bachelor of Business Administration degree, may want to take some Management courses, but should be enrolled under the Associate of Science in Business Administration degree plan. Applicants for admission to the program must fulfill the general requirements for admission to Austin Community College. For more information see a Management advisor.

Semester I	Credit Hours
BUSI 1301 Introduction to Business	3
ENGL 1301 English Composition I	3
+ Mathematics <sup>1</sup>	3
ECON 2302 Principles of Microeconomics OR	3
ECON 2301 Principles of Macroeconomics	
MRKG 1311 Principles of Marketing	3
	-----
	15
Semester II	
BMGT 1303 Principles of Management	3
COSC 1301 Personal Computing	3
+ Humanities/Fine Arts <sup>2</sup>	3
SPCH 1315 Fundamentals of Public Speaking	3
HRPO 2307 Organizational Behavior	3
	-----
	15
Semester III	
ACCT 2301 Principles of Financial Accounting	3
HRPO 2301 Human Resource Management	3
BUSI 1307 Personal Finance OR	3
BUSG 1345 Business Finance	
BUSI 2301 Business Law I OR	3
BUSI 2302 Business Law II	
+ Management Elective <sup>3</sup>	3
	-----
	15
Semester IV	
+ ACCT 2302 Principles of Managerial Accounting	3
BMGT 1341 Business Ethics	3
+ Management Elective <sup>3</sup>	3
+ Management Capstone <sup>4</sup>	3
+ ENGL 2311 Technical & Business Writing	3
	-----
	15
	-----
<b>TOTALS</b>	<b>60</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Required Math courses include MATH 1425, MATH 1314, MATH 1324, or MATH 1342.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list.

<sup>3</sup> Management electives include courses from the listing of management courses in this catalog.

<sup>4</sup> Capstone electives include HRPO 2307, BMGT 2309, and BMGT 2389.

## Administrative Management

### Certificate

This program is designed to enhance career potential and skill development in the management area.

BUSI 1301 Introduction to Business	3
# BMGT 1341 Business Ethics	3
ACCT 2301 Principles of Financial Accounting	3
MRKG 1311 Principles of Marketing	3
COSC 1301 Personal Computing	3
BMGT 1303 Principles of Management	3
	-----
	18
	-----
<b>TOTALS</b>	<b>18</b>

# Capstone course

## Management Specialties Leadership

### Certificate

Semester I	Credit Hours
BMGT 1303 Principles of Management OR	3
BMGT 1301 Supervision	
HRPO 2301 Human Resource Management	3
BMGT 1341 Business Ethics	3
HRPO 2307 Organizational Behavior	3
+# BMGT 2309 Leadership	3
	-----
	15
	-----
<b>TOTALS</b>	<b>15</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Small Business Management

### Basic Skills Certificate

Semester I	Credit Hours
BUSI 1301 Introduction to Business	3
MRKG 1311 Principles of Marketing	3
BUSI 2301 Business Law I <sup>1</sup> OR	3
BUSI 2302 Business Law II <sup>1</sup>	
ACCT 2301 Principles of Financial Accounting OR	3
ACNT 1303 Introduction to Accounting I– Non-Business Majors	
BUSG 1345 Business Finance OR	3
BUSG 1341 Small Business Financing OR	
BUSI 1307 Personal Finance	
# BUSG 2309 Small Business Management	3
	-----
	18
	-----
<b>TOTALS</b>	<b>18</b>

# Capstone course

<sup>1</sup> Commercial Music Management majors may substitute MUSB 1301 for Business Law I or II.

## MARKETING

### Fashion Merchandising

#### Associate of Applied Science Degree

The Fashion Merchandising curriculum provides students with an understanding of how the fashion industry operates. It prepares them for a career in buying and selling, entry-level management, display and sales promotion activities.

Semester I	Credit Hours
<b>ENGL 1301</b> English Composition I	3
+ Humanities/Fine Arts	3
BMGT 1303 Principles of Management	3
<b>ECON 2301</b> Principles of Macroeconomics	3
COSC 1300 Introduction to Computing OR	3
COSC 1301 Personal Computing	
MRKG 1311 Principles of Marketing	3
	-----
	18
	-----
Semester II	Credit Hours
<b>SPCH 1315</b> Fundamentals of Public Speaking	3
MRKG 2371 Consumer Behavior	3
BMGT 1302 Principles of Retailing	3
BUSI 1311 Principles of Salesmanship	3
COMM2327 Principles of Advertising	3
+ Mathematics <sup>1</sup>	3
	-----
	18

### Semester III

FSHD 1302 Introduction to Fashion	3
FSHN 1342 Visual Merchandising	3
FSHN 1301 Textiles	3
Fashion or Marketing Elective	3
Fashion or Marketing Elective	3
	-----
	15

### Semester IV

FSHN 2303 Fashion Buying OR	3
BMGT 1347 Retail Buying	
Fashion or Marketing Elective	3
Unrestricted Elective	3
+ # FSHN 2388 Internship–Fashion Merchandising	3
	-----
	12

### TOTALS

**63**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from the following: MATH 1342, MATH 1324, MATH elective.

## Fashion Merchandising

### Basic Skills Certificate

This certificate program is designed to meet the needs of individuals in the community who desire skills and knowledge in marketing. All of the courses will aid these employees of all industries that are involved in all functions of marketing by allowing them to better understand how these marketing functions can affect the marketing process and how they are interrelated. All courses may be applied towards the Marketing Associates Degree program if the student at a later time desires to pursue an associates degree.

Semester I	Credit Hours
FSHD 1302 Introduction to Fashion	3
FSHN 1342 Visual Merchandising	3
FSHN 2301 Fashion Promotion	3
FSHN 2303 Fashion Buying OR	3
BMGT 1347 Retail Buying	
+ # FSHN 2388 Internship–Fashion Merchandising	3
BMGT 1302 Principles of Retailing	3
	-----
	18
	-----
<b>TOTALS</b>	<b>18</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

# Marketing

## Marketing Associate of Applied Science Degree

This is a two-year course of study that will provide detail knowledge and skills in the various functions of marketing and marketing management. The skills and knowledge will prepare the student to enter the work force and have the competencies and obtain mastery in the field of marketing. Course work includes both general marketing courses to establish a foundation of study and specialized courses that will allow the student to meet their individual career objectives. A graduate of this 2-year program has the option of continuing his or her education and pursuing a 4-year non-traditional occupational education degree (Bachelors of Applied Arts & Science) offered by a number of state universities.

<b>Semester I</b>		<b>Credit Hours</b>
	<b>ENGL 1301</b> English Composition I	3
+	Humanities/Fine Arts	3
	<b>BMGT 1303</b> Principles of Management	3
	<b>ECON 2301</b> Principles of Macroeconomics	3
	<b>COSC 1300</b> Introduction to Computing OR	3
	<b>COSC 1301</b> Personal Computing	
	<b>MRKG 1311</b> Principles of Marketing	3
	-----	18
<b>Semester II</b>		
	<b>SPCH 1315</b> Fundamentals of Public Speaking	3
	<b>MRKG 2371</b> Consumer Behavior	3
	<b>BMGT 1302</b> Principles of Retailing	3
	<b>BUSI 1311</b> Principles of Salesmanship	3
	<b>ACCT 2301</b> Principles of Financial Accounting	3
+	Mathematics <sup>1</sup>	3
	-----	18
<b>Semester III</b>		
	<b>COMM2327</b> Principles of Advertising	3
	<b>ECON 2302</b> Principles of Microeconomics	3
+	<b>ACCT 2302</b> Principles of Managerial Accounting	3
	<b>BUSI 1307</b> Personal Finance	3
	<b>PRCD 1311</b> Public Relations	3
	-----	15
<b>Semester IV</b>		
	<b>BUSG 1345</b> Business Finance	3
	<b>BMGT 1348</b> Marketing Research and Strategies	3
	Marketing Elective	3
+#	<b>MRKG 2388</b> Internship–Business Marketing and	
	Marketing Management OR	3
#	Marketing Elective	
	-----	12
	-----	63

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from the following: MATH 1342, MATH 1324, MATH elective.

## Marketing Certificate

This certificate program is designed to meet the needs of the individuals in the community who desire skills and knowledge in marketing. All of the courses will aid these employees of all industries that are involved in all functions of marketing by allowing them to better understand how these marketing functions can affect the marketing process and how they are interrelated. All courses may be applied towards the Marketing Associates Degree program if the student at a later time desires to pursue an associates degree.

<b>Semester I</b>		<b>Credit Hours</b>
	<b>MRKG 1311</b> Principles of Marketing	3
	<b>BUSI 1311</b> Principles of Salesmanship	3
#	<b>COMM2327</b> Principles of Advertising	3
	<b>BMGT 1302</b> Principles of Retailing	3
	<b>PRCD 1311</b> Public Relations	3
	Marketing Elective	3
	-----	18
	<b>TOTALS</b>	<b>18</b>

# Capstone course

## Marketing Enhanced Skills Certificate

This certificate program is designed to acknowledge the attainment of advanced skills in Marketing. All courses may be applied towards the Marketing Associate Degree program if the student desires to pursue an associate degree.

<b>Semester I</b>		<b>Credit Hours</b>
	<b>BMGT 1347</b> Retail Buying OR	3
	<b>FSHN 2303</b> Fashion Buying	
	<b>BMGT 1348</b> Marketing Research and Strategies	3
+	<b>MRKG 2375</b> Advanced Advertising Campaigns	3
#	<b>MRKG 1391</b> Special Topics in Business Marketing	
	and Marketing Management	3
	-----	12
	<b>TOTALS</b>	<b>12</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## MATHEMATICS

### Mathematics

#### Associate of Science Degree

The Associate of Science degree in mathematics provides students with the general education and mathematics courses normally taken in the first two years of a mathematics program at a four-year college or university and provides the flexibility for students desiring only an associate degree to specialize the program to individual interests. To receive an Associate of Science degree in Mathematics, the student must (a) make a minimum grade of C in all required mathematics and science courses, and (b) have an overall GPA of 2.0 or greater

<b>Semester I</b>		<b>Credit Hours</b>
	<b>ENGL 1301</b> English Composition I	3
	<b>HIST 1301</b> United States History I <sup>1</sup>	3
+	<b>MATH 2413</b> Calculus I <sup>2</sup>	4
+	Natural Science <sup>3</sup>	4
		-----
		14
<b>Semester II</b>		
+	<b>ENGL 1302</b> English Composition II	3
	<b>HIST 1302</b> United States History II	3
+	<b>MATH 2414</b> Calculus II	4
+	Natural Science <sup>3</sup>	4
		-----
		14
<b>Semester III</b>		
+	Humanities <sup>4</sup>	4
	<b>GOVT 2305</b> United States Government	3
	Core Curriculum Elective <sup>5</sup>	3
+	<b>MATH 2415</b> Calculus III	4
	Restricted Elective <sup>6</sup>	3
		-----
		17
<b>Semester IV</b>		
	Oral Communication <sup>7</sup>	3
	Core Curriculum Elective <sup>5</sup>	3
	<b>GOVT 2306</b> Texas State and Local Government	3
	Restricted Elective <sup>6</sup>	3
	Core Curriculum Elective <sup>5</sup>	3
		-----
		15
		-----
<b>TOTALS</b>		<b>60</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Any other US History I course in the Core Curriculum may be substituted for HIST 1301.

<sup>2</sup> Students should consult with a full-time mathematics instructor to determine if it is necessary to take one or more mathematics courses (like MATD 0390 or MATH 1314, MATH 1316, or MATH 2412) before taking calculus.

<sup>3</sup> Select from the Natural Science section of the Core Curriculum Course list. The science courses should include at least two in one discipline. At least 8 hours of science must be included, which may be two or three courses, depending on the discipline. Students planning to major in mathematics at a four-year college or university should take 8 hours of engineering physics.

<sup>4</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>5</sup> Select one course from Visual and Performing Arts section, one course from Other Social and Behavioral Science section, and an additional course from Humanities section of the Core Curriculum Course list. Also, most four-year degree plans in mathematics require some foreign language courses which students are encouraged to take in the first two years.

<sup>6</sup> Restricted electives must be chosen from among the following courses: MATH 1342, MATH 2318, MATH 2420, MTH 2254, PHYS 2425, PHYS 2426, or COSC 1315 or another specialized programming language.

<sup>7</sup> Select a Speech course from the Communications section of the Core Curriculum Course list.

## MEDICAL CODING

### Medical Coding Specialist

#### Certificate

The Medical Coding program balances knowledge of medical science, technical skills, and practical experience with assessment and evaluation by instructors. Medical coding specialists organize and evaluate patients' records for completeness and accuracy. They ensure that all forms are present and properly identified and signed. Sometimes, they talk to physicians or others to clarify diagnoses or get additional information. Technicians may then use a software program to assign the patient to one of several hundred "diagnosis-related groups," which determine the amount of health insurance reimbursement. Medical coding specialists work in hospitals, clinics, physicians' offices, health maintenance organizations, mental health care facilities, nursing homes, and insurance companies. You must satisfactorily complete prerequisite classes before enrolling in any Health Sciences program. Health Sciences program enrollment is limited, so you must apply for admission. You can learn more about Health Sciences prerequisites, admission procedures, and deadlines by registering for a Career Advising and Planning Session (CAPS) through the Health Sciences Information and Admissions Office, (512) 223-6104.

<b>Semester I</b>		<b>Credit Hours</b>
	<b>HITT 1305</b> Medical Terminology	3
+	<b>HITT 1301</b> Health Data Content and Structure	3
	<b>HITT 1253</b> Legal & Ethical Aspects of Health Information	2
+	<b>MDCA 1409</b> Anatomy & Physiology for Medical Assistants	4
		-----
		12
<b>Semester II</b>		
+	<b>HPRS 2301</b> Pathophysiology	3
+	<b>HITT 1441</b> Coding and Classification Systems	4
+	<b>HITT 1270</b> Insurance Coding	2
	<b>HPRS 2200</b> Pharmacology for Health Professions	2
		-----
		11
<b>Semester II</b>		
+	<b>HITT 2435</b> Coding and Reimbursement Methodologies	4
+#	<b>HITT 2266</b> Coding Practicum	2
		-----
		6
		-----
<b>TOTALS</b>		<b>29</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

# Medical Laboratory Technology

## MEDICAL LABORATORY TECHNOLOGY

### Medical Laboratory Technology

#### Associate of Applied Science Degree

The Medical Laboratory Technology Program prepares students to function as Clinical Laboratory Technicians or Medical Laboratory Technicians in a wide variety of settings from physician office laboratories to modern tertiary care hospitals through classroom study and supervised clinical experience. The curriculum includes study of the formed elements of blood, coagulation mechanisms, analysis of body fluids, blood typing and cross-matching, techniques of sterilization and disinfection, bacterial descriptions and classifications, characteristics of pathogenic fungi and parasites, clinical chemistry analysis, and other aspects of medical laboratory technology. Upon successful completion of the prescribed curriculum, the student is eligible to take an examination for national certification. **The program is nationally accredited through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 8410 West Bryn Mawr, Suite 670, Chicago, IL, 60631: (773) 714-8880. ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE MEDICAL LABORATORY TECHNOLOGY PROGRAM. ADMISSION CRITERIA HAVE BEEN ESTABLISHED AND ENROLLMENT IS LIMITED.**

Students accepted into the program are required to have a physical examination, provide documentation of immunizations, and must verify tuberculosis status.

Prerequisites	Credit Hours
+ BIOL 1406 Cellular and Molecular Biology	4
+ CHEM 1405 Introduction to Chemistry	4
	-----
	8

#### Fall Semester (First Year)

MLAB 1201 Introduction to Clinical Laboratory Science	2
+ MLAB 1315 Hematology	3
+ MLAB 1227 Coagulation	2
MLAB 1235 Immunology/Serology	2
Oral Communication <sup>1</sup>	3
+ Mathematics <sup>2</sup>	3
	-----
	15

#### Spring Semester (First Year)

MLAB 1211 Urinalysis/Body Fluids	2
+ MLAB 2431 Immunohematology	4
MLAB 1331 Parasitology/Mycology	3
+ BIOL 2421 Microbiology	4
	-----
	13

#### Summer Semester (First Year)

+ MLAB 2434 Clinical Microbiology	4
+ MLAB 2360 Clinical I	3
	-----
	7

#### Fall Semester (Second Year)

+ Humanities/Fine Arts <sup>3</sup>	3
+ MLAB 2401 Clinical Chemistry	4
+ MLAB 2361 Clinical II	3
+ BIOL 2304 Human Anatomy Lecture	3
+ BIOL 2101 Human Anatomy Lab	1
	-----
	14

#### Spring Semester (Second Year)

+ MLAB 2362 Clinical III	3
PSYC 2301 Introduction to Psychology	3
COSC 1301 Personal Computing	3
ENGL 1301 English Composition I	3
	-----
	12

#### TOTALS

69

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Oral Communication section of the General Education Course list.

<sup>2</sup> Select from the following: MATH 1314, MATH 1332, MATH 1342, MATH 1335, or acceptable equivalent.

<sup>3</sup> Select from Humanities/Fine Arts section of the General Education Course list. PHIL 2306 is recommended.

### Optional Courses

+ PLAB 1223 Phlebotomy	2
+ PLAB 1166 Phlebotomy Practicum	1
+ MLAB 1167 Medical Laboratory Assistant Practicum I	
	-----
	4
	-----
	4

#### TOTALS

4

+ Prerequisites: See Course Descriptions.

# Meeting and Events Planning

## MEETING AND EVENTS PLANNING

### Meeting Management & Events Specialization

Associate of Applied Science Degree

Semester I	Credit Hours
HAMG 1321 Introduction to Hospitality Industry	3
IFWA 1217 Food Production and Planning (Math)	2
FDNS 1301 Introduction to Foods	3
IFWA 1213 Sanitation and Safety	2
ENGL 1301 English Composition I	3
+ MATH 1332 College Mathematics	3
	16
Semester II	
HAMG 1313 Front Office Procedures	3
HAMG 2332 Hospitality Financial Management	3
RSTO 1304 Dining Room Service	3
HAMG 1219 Computers in Hospitality	2
Restricted Elective <sup>1</sup>	3
TRVM 1327 Hospitality and Special Events OR	3
TRVM 2301 Introduction to Convention/Meeting Management	3
	17
Semester III	
+ CULA 1341 American Regional Cuisine	3
Oral Communication <sup>2</sup>	3
Social and Behavioral Science <sup>3</sup>	3
HAMG 1324 Hospitality Human Resources Management	3
Restricted Elective <sup>1</sup>	3
	15
Semester IV	
+# HAMG 2389 Internship–Hospitality Administration and Management	3
HAMG 2305 Hospitality Management and Leadership	3
Restricted Elective <sup>1</sup>	3
Restricted Elective <sup>1</sup>	3
+ Humanities/Fine Arts <sup>3</sup>	3
	15
	63

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup>Select courses from the following areas: HAMG, CULA, TRVM.

<sup>2</sup>Select from Oral Communications section of the General Education Course list.

<sup>3</sup>This includes a Visual and Performing Arts course, an additional Humanities course, and an additional Social and Behavioral Science course. Consult the catalog core curriculum for a list of acceptable courses.

## Meeting Planning

Certificate

Semester I	Credit Hours
TRVM 2301 Introduction to Convention/Meeting Management	3
HAMG 2330 Convention and Group Management Services	3
TRVM 1325 Exposition and Trade Show Management	3
TRVM 1327 Hospitality and Special Events	3
	12
Semester II	
+ TRVM 2331 Convention and Exposition Law and Ethics	3
+ TRVM 2333 Applied Convention/Meeting Management	3
+# TRVM 2366 Practicum or Field Experience–Travel and Tourism	1
HAMG 2305 Hospitality Management and Leadership	3
	10
<b>TOTALS</b>	<b>22</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

### MUSIC

#### Music

#### Associate of Arts Degree

(See Commercial Music Management degree plan, also.)  
Students may choose to substitute 3-4 hours of Music courses for the additional hours required to satisfy the Natural Sciences requirement of the Core Curriculum. Please see an advisor in the Music department for the appropriate substitutions.

Semester I		Credit Hours
	<b>ENGL 1301</b> English Composition I	3
	<b>HIST 1301</b> United States History I	3
+	Mathematics <sup>1</sup>	3
+	<b>MUSI 1311</b> Music Theory I	3
+	<b>MUSI 1116</b> Sight-Singing and Ear Training I	1
	<b>MUSI 1181</b> Piano Class I	1
	Ensemble	1
+	<b>MUAP 1201</b> Applied-Strings	2
	Oral Communication <sup>2</sup>	3
		-----
		20
Semester II		
+	<b>ENGL 1302</b> English Composition II	3
	<b>HIST 1302</b> United States History II	3
+	Natural Science <sup>3</sup>	3-4
+	<b>MUSI 1312</b> Music Theory II	3
+	<b>MUSI 1117</b> Sight-Singing and Ear Training II	1
+	<b>MUAP 1201</b> Applied-Strings	2
+	<b>MUSI 1182</b> Piano Class II	1
	Ensemble	1
		-----
		17-18
Semester III		
	<b>GOVT 2305</b> United States Government	3
+	Foreign Language <sup>4</sup>	5
+	<b>MUSI 2311</b> Music Theory III	3
	<b>MUSI 1308</b> Music Literature I	3
+	<b>MUSI 2116</b> Sight-Singing and Ear Training III	1
+	<b>MUAP 1201</b> Applied-Strings	2
	Ensemble	1
		-----
		18
Semester IV		
	<b>GOVT 2306</b> Texas State and Local Government	3
+	Foreign Language <sup>4</sup>	5
+	<b>MUSI 2312</b> Music Theory IV	3
	<b>MUSI 1309</b> Music Literature II	3
+	<b>MUSI 2118</b> Sight-Singing and Ear Training IV	1
+	<b>MUAP 1201</b> Applied-Strings	2
	Ensemble	1
	Unrestricted Elective	3
		-----
		21
		-----
<b>TOTALS</b>		<b>76-77</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> The course for the Math requirement may be chosen from the following: MATH 1332, MATH 1342, MATH 1324, or MATH 1314 (depending on math requirements of the four-year institution to which the student will be

transferring). Students should first consult with a mathematics advisor.

<sup>2</sup> Student may take SPCH 1311, SPCH 1315, SPCH 1318, or ENGL 1311. Students are encouraged to satisfy the Speech requirement of the Core Curriculum.

<sup>3</sup> The course for the Natural Science requirement may be chosen from the following: PHYS 1311, PHYS 1312, BIOL 1406, CHEM 1405, GEOL 1305, ENVR 1301, PSC 1613, PHYS 1401.

<sup>4</sup> Foreign language hours must be in the same language.

<sup>5</sup> Select from Social and Behavioral Science section of the Core Curriculum Course list.

### NURSING

#### (Licensed Vocational Nursing)

The Vocational Nursing Program is a certificate program, offering college credit, which includes classroom, laboratory, and clinical learning experiences. The program is designed to prepare the graduate to provide nursing care in structured health care settings for clients of all ages who have well defined health problems with predictable outcomes. Emphasis is placed on the ability to make sound judgments based on critical thinking skills, the knowledge of scientific principles and the ability to utilize technical skills in a variety of settings. Graduates are eligible to apply to take the National licensure examination to become a Licensed Vocational Nurse (LVN). The Board of Vocational Nurse Examiners determines eligibility for licensure. Applicants for licensure must provide necessary information regarding any drug, alcohol, psychiatric and/or conviction history for determination of licensure eligibility. The program is approved by the Texas Board of Vocational Nurse Examiners (333 Guadalupe Street Suite 3-400, Austin, TX 78701; telephone (512) 305-8100 and accredited by the National League for Nursing Accrediting Commission (61 Broadway, New York, NY 10006; telephone (212) 363-5555 ext.153).

Admission criteria have been established and enrollment is limited. Admission to the College does not guarantee admission to the Vocational Nursing Program. All courses must be taken in the following sequence. Students must consult with the Vocational Nursing Department Chair and be accepted into the program prior to enrolling for any VNSG course. Admission criteria may be obtained from the Vocational Nursing Office. CPR (Cardiopulmonary Resuscitation) for Healthcare Providers certification must be acquired prior to enrollment and maintained through the Vocational Nursing Program. Students accepted into the program are required to have a physical examination by their own private physician, provide documentation of immunizations, and must verify annual tuberculosis status.

Completion of BIOL 2401, BIOL 2402, HPRS 1206, HPRS 2300 and semester I VNSG courses required prior to enrollment in semester II.

# Nursing (Professional)

## Nursing (Vocational) Certificate

Prerequisites	Credit Hours
<b>BIOL 2401</b> Anatomy & Physiology I <sup>1</sup> OR	4
+ <b>BIOL 2402</b> Anatomy and Physiology II <sup>1</sup>	
<b>HPRS 1206</b> Medical Terminology <sup>2</sup> OR	2-3
+ <b>HPRS 2300</b> Pharmacology for Health Professions <sup>1/2</sup>	
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	6-7
<b>Semester I</b>	
+ <b>VNSG 1423</b> Basic Nursing Skills	4
+ <b>VNSG 1304</b> Foundations of Nursing	3
+ <b>VNSG 1400</b> Nursing in Health and Illness I	4
+ <b>VNSG 1115</b> Disease Control and Prevention	1
+ <b>VNSG 1160</b> Introductory Clinical for Vocational Nursing	1
<b>HPRS 1206</b> Medical Terminology <sup>2</sup> OR	2-3
+ <b>HPRS 2300</b> Pharmacology for Health Professions <sup>2</sup>	
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	15-16
<b>Semester II</b>	
+ <b>VNSG 1509</b> Nursing in Health and Illness II	5
+ <b>VNSG 2331</b> Advanced Nursing Skills	3
+ <b>VNSG 1461</b> Intermediate Clinical for Vocational Nursing	4
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	12
<b>Semester III</b>	
+ <b>VNSG 1510</b> Nursing in Health and Illness III	5
+ <b>VNSG 2462</b> Advanced Clinical for Vocational Nursing	4
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	9
<b>Semester IV</b>	
+ <b>VNSG 1230</b> Maternal-Neonatal Nursing	2
+ <b>VNSG 1234</b> Pediatrics	2
+# <b>VNSG 2463</b> Maternal-Child and Leadership Clinical Vocational Nursing	4
+# <b>VNSG 1219</b> Professional Development	2
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	10
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<b>TOTALS</b>	<b>52-54</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> BIOL 2401 (or BIOL 2402) and HPRS 2300 must be current within the last five years.

<sup>2</sup> Students must complete both HPRS 1206 and HPRS 2300. Priority admission will be given to students who have completed all 3 prerequisites prior to admission to the nursing program.

## Nursing

(Professional)

### NURSING MOBILITY TRACK Associate of Applied Science Degree

The Associate Degree Nursing Program Mobility Track is a separate plan of study that includes classroom, laboratory, and clinical learning experiences for Licensed Vocational Nurses and Paramedics with current experience. Applicants must meet all entry requirements and must be licensed vocational nurses or paramedics in good standing in the state of Texas. All courses within the degree plan must be completed with a minimum grade of "C." Additional admission requirements may be obtained from the Associate Degree Nursing Program office. Upon successful completion of the Mobility Track, the graduate will be eligible to apply for licensure by examination to become a Registered Nurse. The Board of Nurse Examiners for the State of Texas determines eligibility for licensure. Applicants for licensure must provide necessary information regarding drug, alcohol, or conviction history for determination of licensure eligibility.

Prerequisites	Credit Hours
<b>BIOL 2401</b> Anatomy & Physiology I <sup>1</sup>	4
<b>BIOL 2420</b> Introduction to Microbiology <sup>2</sup>	4
+ <b>Mathematics<sup>3</sup></b>	3
<b>PSYC 2301</b> Introduction to Psychology	3
+ <b>BIOL 2402</b> Anatomy and Physiology II	4
+ <b>HPRS 2300</b> Pharmacology for Health Professions	3
+ <b>PSYC 2314</b> Human Growth and Development	3
<b>Oral Communication<sup>4</sup></b>	3
<b>Humanities/Fine Arts</b>	3
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	30
<b>Semester I</b>	
+ <b>RNSG 1140</b> Nursing Skills for Articulating Students	1
+ <b>RNSG 1170</b> Nursing Process for Articulating Students	1
+ <b>RNSG 1517</b> Concepts of Nursing Practice I for Articulating Students	5
+ <b>RNSG 1263</b> Nursing Practice I Clinical	2
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	9
<b>Semester II</b>	
+ <b>RNSG 1542</b> Concepts of Nursing Practice II for Articulating Students	5
+ <b>RNSG 1463</b> Nursing Practice II Clinical for Articulating Students	4
<b>ENGL 1301</b> English Composition I	3
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	12
<b>Semester III</b>	
+ <b>RNSG 2402</b> Concepts of Nursing Practice III for Articulating Students	4
+ <b>RNSG 2263</b> Nursing Practice III Clinical for Articulating Students	2
<b>Unrestricted Elective</b>	3
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	9
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<b>TOTALS</b>	<b>60</b>

# Nursing (Professional)

+ Prerequisites: See Course Descriptions.

<sup>1</sup> These courses must be current within the last 5 years.

<sup>2</sup> Select from the following: MATH 1314, MATH 1332, MATH 1342 or higher level math course.

<sup>3</sup> Select from Oral Communications section of the General Education Course List.

<sup>4</sup> Select from Humanities/Fine Arts section of the General Education Course List.

## Nursing Traditional Track

### Associate of Applied Science Degree

The Associate Degree Nursing Program Traditional Track is a two-year course of study that includes classroom, laboratory, and clinical learning experiences. Upon successful completion of the program, the graduate will be eligible to apply to take the national licensure examination to become a registered nurse (R.N.). The Board of Nurse Examiners for the State of Texas determines eligibility for licensure.

Applicants for licensure must provide necessary information regarding drug, alcohol, or conviction history for determination of licensure eligibility. Registered nurses prepared at the associate degree level possess a high degree of technical nursing skills and apply scientific principles to all nursing care. Graduates of an associate degree-nursing program may continue their education for two or more years at a four-year college to earn a bachelor's degree. **ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE ASSOCIATE DEGREE NURSING PROGRAM.** All courses must be completed with a minimum grade of "C."

Students may choose to complete any of the corequisite general education courses prior to enrolling in the nursing courses. Students must be accepted into the program prior to enrolling for any RNSG course. Admission criteria may be obtained from the Associate Degree Nursing Program office. CPR (Cardiopulmonary Resuscitation) training must be completed prior to enrollment and maintained throughout the Associate Degree Nursing Program. The Associate Degree Nursing Program is fully accredited by the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY, 10006; (212) 363-5555 Ext.153. Students accepted into the program are required to have a physical examination, provide documentation of immunizations, and must verify annual tuberculosis status.

Prerequisites	Credit Hours
<b>BIOL 2401</b> Anatomy & Physiology I	4
<b>BIOL 2420</b> Introduction to Microbiology	4
+ Mathematics <sup>1</sup>	3
+ <b>BIOL 2402</b> Anatomy and Physiology II	4
+ <b>HPRS 2300</b> Pharmacology for Health Professions	3
+ <b>RNSG 1105</b> Nursing Skills I	1

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19

### Semester I

+ RNSG 1209	Introduction to Nursing	2
+ RNSG 1144	Nursing Skills II	1
+ RNSG 1260	Clinical I - Nursing	2
+ RNSG 1441	Common Concepts of Adult Health	4
<b>PSYC 2301</b>	Introduction to Psychology	3

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12

### Semester II

+ RNSG 1443	Complex Concepts of Adult Health	4
+ RNSG 1362	Clinical II - Nursing	3
+ RNSG 1210	Introduction to Community-Based Nursing	2
+ PSYC 2314	Human Growth and Development	3
	Oral Communication <sup>2</sup>	3

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15

### Semester III

+ RNSG 1412	Nursing Care of the Childbearing/Childrearing Family	4
+ RNSG 1262	Childbearing/Childrearing Family Clinical	2
+ RNSG 2213	Mental Health Nursing	2
+ RNSG 2160	Mental Health Clinical	1
<b>ENGL 1301</b>	English Composition I	3

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12

### Semester IV

+ RNSG 2361	Clinical III - Nursing	3
+ RNSG 2221	Management of Client Care	2
+ RNSG 2161	Management Clinical	1
+ Humanities/Fine Arts <sup>3</sup>		3
+ RNSG 2331	Advanced Concepts of Adult Health	3

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12

### TOTALS

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**70**

+ Prerequisites: See Course Descriptions.

<sup>1</sup> May also choose from the following: MATH 1342, MATH 1314 or higher level math course.

<sup>2</sup> Select from Oral Communications section of the General Education Course List.

<sup>3</sup> Select from Humanities/Fine Arts section of the General Education Course List.

# Occupational Therapy Assistant

## OCCUPATIONAL THERAPY ASSISTANT

### Occupational Therapy Assistant

#### Associate of Applied Science Degree

Occupational Therapy helps patients of all ages with physical, emotional, social, and developmental disabilities. Activities used in treatment include, but are not limited to, creative arts such as painting; manual arts such as sewing or leather work; and daily living skills such as combing hair, brushing teeth, and dressing. Occupational therapy assistants and the registered occupational therapist work as a team to plan and carry out programs, observe patients, make progress reports, and order and prepare equipment. Opportunities for rewarding employment are found in hospitals, rehabilitation centers, public health agencies, special schools, mental health facilities, private practice settings, and nursing homes. This course of study has been accredited by the Accreditation Council for Occupational Therapy Education (ACOTE, AOTA P.O. Box 31220, Bethesda, MD 20824-1220; 301-652-2682). State licensure is presently required in Texas for occupational therapy assistants by the Texas Board of Occupational Therapy Examiners (TBOTE, 333 Guadalupe Suite 2-510, Austin TX 78701-3942; 512-305-6951). Graduates are eligible for national certification as an occupational therapy assistant (COTA), by the National Board for Certification in Occupational Therapy, Inc. (NBCOT, 800 S. Frederick Ave. Suite 200, Gaithersburg, MD 20877-4150; 301-990-7979) following completion of their certification examination for Occupational Therapy Assistants. Applicants for the certification examination and licensure must provide necessary information regarding drug, alcohol, or conviction history for determination of licensure eligibility. **ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE O.T.A. PROGRAM.** Admission criteria may be obtained from the Occupational Therapy Assistant office or by visiting the Program web site at <http://www2.austin.cc.tx.us/ota> Students accepted into the program are required to have a physical examination, provide documentation of immunizations, and verify annual tuberculosis status.

#### Credit Hours

<b>Prior To Acceptance &amp; Enrollment in OTHA 1305</b>		
ENGL 1301	English Composition I	3
PSYC 2301	Introduction to Psychology	3
BIOL 2401	Anatomy & Physiology I	4
+ MATH 1333	Mathematics for Measurement	3
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		13

#### Fall Semester

+ OTHA 1305	Principles of Occupational Therapy	3
OTHA 1409	Human Structure and Function in Occupational Therapy	4
	Oral Communication <sup>1</sup>	3
+ PSYC 2314	Human Growth and Development	3
HPRS 1106	Medical Terminology PCM	1
		-----
		14

#### Spring Semester

+ OTHA 2301	Pathophysiology in Occupational Therapy	3
+ OTHA 1315	Therapeutic Media I in Occupational Therapy	3
+ OTHA 1319	Therapeutic Modalities I in Occupational Therapy	3
+ OTHA 1162	Pediatric Level 1 Clinical	1
OTHA 1341	Life Skills Performance of Childhood in Occupational Therapy	3
		-----
		13

#### Summer Semester

OTHA 2204	Neurology In Occupational Therapy	2
+ OTHA 2302	Therapeutic Media II in Occupational Therapy	3
+	Humanities/Fine Arts <sup>2</sup>	3
		-----
		8

#### Fall Semester

+ OTHA 2311	Abnormal Psychology in Occupational Therapy	3
+ OTHA 2331	Physical Function in Occupational Therapy	3
+ OTHA 2305	Therapeutic Modalities II in Occupational Therapy	3
+ OTHA 2309	Mental Health in Occupational Therapy	3
+ OTHA 1161	Clinical–Occupational Therapy Assistant	1
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		13

#### Spring Semester

OTHA 1253	Life Span for Geriatrics	2
+ OTHA 2266	Level 2 Practicum	2
+ OTHA 2235	Health Care Management in Occupational Design	2
		-----
		6

#### Summer Semester

+ OTHA 2330	Workplace Skills for the Occupational Therapy Assistant	3
OTHA 2266	Level 2 Practicum	2
		-----
		5

#### TOTALS

72

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from Oral Communications section of the General Education Course list.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list.

# Office Administration

## OFFICE ADMINISTRATION

The Office Administration curriculum provides students with increased knowledge of specialized areas of office procedures and techniques. The specialized curricula prepare students with marketable skills to meet their individual requirements, current demands, and future needs of the business world. POFT 1329 or 35 words per minute keyboarding speed is a prerequisite for all Office Administration one-year certificates and AAS degrees.

## Administrative Assistant

### Associate of Applied Science Degree

This program prepares the student to carry out administrative and general office functions required in assistant or executive assistant positions. The student will learn to coordinate, expedite, and facilitate office operations by implementing specific use of selected word processing, spreadsheet, and database software. One semester of internship allows for practical application of marketable skills.

<b>Semester I</b>		<b>Credit Hours</b>
+ POFT	2301 Document Formatting and Skillbuilding: MS Word™ II	3
	<b>ENGL 1301</b> English Composition I	3
+ POFT	1302 Business Communications I	3
+ POFT	1309 Administrative Office Procedures I	3
	<b>SPCH 1318</b> Interpersonal Communication	3
		15

<b>Semester II</b>		
+ MATH	1332 College Mathematics	3
+ POFT	2312 Business Communications II	3
	ACNT 1403 Introduction to Accounting I	4
+ POFT	2331 Administrative Systems: Office Management	3
+ POFT	1321 Business Math	3
+ POFT	1231 Business Machine Applications–Data Entry	2
		18

<b>Semester III</b>		
	<b>GOVT 2306</b> Texas State and Local Government	3
	<b>PHIL 2303</b> Logic OR	3
	<b>PHIL 2306</b> Ethics	3
+ ITSW	1310 Presentation Media Software–PowerPoint™	3
+ POFI	1449 Spreadsheets–Excel™	4
+ ITNW	1337 Introduction to the Internet	3
+ POFI	1371 Access™	3
		19

<b>Semester IV</b>		
+ POFT	2321 Machine Transcription I	3
+ POFT	2203 Speed and Accuracy Building	2
+ POFT	1449 Administrative Office Procedures II	4
+ ITSC	2331 Integrated Software Applications III	3
+ # POFT	2386 Internship–Administrative Assistant/Secretarial Science, General	3
		15

**TOTALS** **67**

+ Prerequisites: See Course Descriptions.  
# Capstone course

## Administrative Assistant

### Certificate

<b>Semester I</b>		<b>Credit Hours</b>
+ POFT	2301 Document Formatting and Skillbuilding: MS Word™ II	3
+ POFT	1302 Business Communications I	3
+ POFT	1309 Administrative Office Procedures I	3
+ POFT	1321 Business Math	3
+ POFT	1231 Business Machine Applications–Data Entry	2
		14

<b>Semester II</b>		
+ POFT	2331 Administrative Systems: Office Management	3
+ POFI	1449 Spreadsheets–Excel™	4
+ POFI	1371 Access™	3
+ # POFT	1449 Administrative Office Procedures II	4
+ ITSC	2331 Integrated Software Applications III	3
+ ITSW	1310 Presentation Media Software–PowerPoint™	3
		20

**TOTALS** **34**

+ Prerequisites: See Course Descriptions.  
# Capstone course

## Office Assistant

### Certificate

This certificate may be completed in one semester.

		<b>Credit Hours</b>
+ POFT	1329 Keyboarding and Document Formatting –MS Word™ I	3
+ POFT	1302 Business Communications I	3
+ POFT	1309 Administrative Office Procedures I	3
+ POFT	1321 Business Math	3
+ POFT	1231 Business Machine Applications–Data Entry	2
+ # POFI	1449 Spreadsheets–Excel™	4
+ POFI	1371 Access™	3
		21

**TOTALS** **21**

+ Prerequisites: See Course Descriptions.  
# Capstone course

# Office Administration

## Software Applications Specialist

### Certificate

This certificate **may** be completed in one semester. Prerequisite: Students choosing this certificate are required to key 35 WPM or take POFT 1329 and/or POFT 1127.

Semester I		Credit Hours
+ POFT	2301 Document Formatting and Skillbuilding: MS Word™ II	3
+ POFT	1302 Business Communications I	3
+ POFT	1309 Administrative Office Procedures I	3
+ ITSW	1310 Presentation Media Software–PowerPoint™	3
+ ITNW	1337 Introduction to the Internet	3
		-----
		15
Semester II		
+ POFI	1449 Spreadsheets–Excel™	4
+ POFI	1371 Access™	3
+# ITSC	2331 Integrated Software Applications III	3
+ ITSC	1313 Internet/Web Page Development	3
		-----
		13
<b>TOTALS</b>		<b>28</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Legal Administrative Assistant

### Associate of Applied Science Degree

This program prepares the student for work in the legal field as a legal office assistant or to enter the Legal Assistant program. The student will learn the specialized office administration skills required to work in a legal office including legal terminology, processing legal documents, and transcription of dictation specific to the legal field. One semester of internship in a legal office is a culmination of this specialized training.

Semester I		Credit Hours
+ POFT	2301 Document Formatting and Skillbuilding: MS Word™ II	3
	<b>ENGL 1301</b> English Composition I	3
+ POFT	1302 Business Communications I	3
+ POFT	1309 Administrative Office Procedures I	3
	<b>SPCH 1318</b> Interpersonal Communication	3
		-----
		15
Semester II		
+ MATH	1332 College Mathematics	3
+ POFT	2312 Business Communications II	3
+ POFT	2331 Administrative Systems: Office Management	3
+ LGLA	1311 Introduction to Law	3
+ POFT	1321 Business Math	3

+ POFT	1231 Business Machine Applications–Data Entry	2
		-----
		17

### Semester III

	<b>GOVT 2306</b> Texas State and Local Government	3
	<b>PHIL 2306</b> Ethics OR	3
	<b>PHIL 2303</b> Logic	
+ ITSW	1310 Presentation Media Software–PowerPoint™	3
+ POFI	1449 Spreadsheets–Excel™	4
+ LGLA	1313 Introduction to Paralegal Studies	3
+ POFI	1371 Access™	3
		-----
		19

### Semester IV

+ POFL	1359 Legal Transcription	3
+ POFT	2203 Speed and Accuracy Building	2
+ LGLA	2307 Law Office Management OR	3-4
+ POFT	1449 Administrative Office Procedures II	
	<b>BUSI 2301</b> Business Law I	3
+# POFT	2386 Internship–Administrative Assistant/Secretarial Science, General	3
		-----
		14-15
<b>TOTALS</b>		<b>65-66</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Legal Administrative Assistant

### Certificate

Semester I		Credit Hours
+ POFT	2301 Document Formatting and Skillbuilding: MS Word™ II	3
+ POFT	1302 Business Communications I	3
+ POFT	1309 Administrative Office Procedures I	3
+ POFT	2331 Administrative Systems: Office Management	3
+ LGLA	1311 Introduction to Law	3
		-----
		15
Semester II		
+ POFI	1449 Spreadsheets–Excel™	4
+ POFI	1371 Access™	3
+# POFT	1449 Administrative Office Procedures II	4
	<b>BUSI 2301</b> Business Law I	3
+ ITSW	1310 Presentation Media Software–PowerPoint™	3
		-----
		17
<b>TOTALS</b>		<b>32</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

# Office Administration

## Medical Administrative Assistant

### Associate of Applied Science Degree

This program provides office administration training with added emphasis in the tasks and knowledge pertaining to the medical field including medical terminology, medical coding, and application of office procedures specific to the medical office. One semester of internship provides practical application of specialized training.

<b>Semester I</b>		<b>Credit Hours</b>
+ POFT	2301 Document Formatting and Skillbuilding: MS Word™ II	3
+ POFT	1302 Business Communications I	3
<b>ENGL</b>	<b>1301</b> English Composition I	3
HPRS	1206 Medical Terminology	2
<b>SPCH</b>	<b>1318</b> Interpersonal Communication	3
HPRS	1201 Introduction to Health Professions	2
		16

<b>Semester II</b>		<b>Credit Hours</b>
+ MATH	<b>1332</b> College Mathematics	3
+ POFT	2312 Business Communications II	3
+ POFT	1309 Administrative Office Procedures I	3
+ POFT	1321 Business Math	3
+ POFT	1231 Business Machine Applications–Data Entry	2
+ POFI	1371 Access™	3
		17

<b>Semester III</b>		<b>Credit Hours</b>
<b>GOVT</b>	<b>2306</b> Texas State and Local Government	3
+ POFT	2331 Administrative Systems: Office Management	3
+ ITSW	1310 Presentation Media Software–PowerPoint™	3
+ POFI	1449 Spreadsheets–Excel™	4
+ POFM	1302 Computers in Health Care	3
		16

<b>Semester IV</b>		<b>Credit Hours</b>
+ POFT	2321 Machine Transcription I	3
HITT	1253 Legal & Ethical Aspects of Health Information	2
<b>PHIL</b>	<b>2303</b> Logic	3
+ POFT	2203 Speed and Accuracy Building	2
+ POFM	1309 Medical Office Procedures	3
+# POFM	1364 Practicum (or Field Experience)–Medical Administrative Assistant	3
		16

**TOTALS** **65**

+ Prerequisites: See Course Descriptions.  
# Capstone course

## Medical Administrative Assistant

### Certificate

<b>Semester I</b>		<b>Credit Hours</b>
+ POFT	2301 Document Formatting and Skillbuilding: MS Word™ II	3
+ POFT	1302 Business Communications I	3
+ POFT	1309 Administrative Office Procedures I	3
+ POFT	1321 Business Math	3
+ POFT	1231 Business Machine Applications–Data Entry	2
		14

<b>Semester II</b>		<b>Credit Hours</b>
+ POFI	1449 Spreadsheets–Excel	4
+ POFI	1371 Access	3
HPRS	1206 Medical Terminology	2
+ POFM	1302 Computers in Health Care	3
+# POFM	1309 Medical Office Procedures	3
		15

**TOTALS** **29**

+ Prerequisites: See Course Descriptions.  
# Capstone course

## Medical Office Assistant

### Certificate

This certificate **may** be completed in one semester.

+ POFT	1329 Keyboarding and Document Formatting–MS Word™ I	3
+ POFT	1302 Business Communications I	3
+ POFT	1231 Business Machine Applications–Data Entry	2
HPRS	1206 Medical Terminology	2
+ POFM	1302 Computers in Health Care	3
+# POFM	1309 Medical Office Procedures	3
		16

**TOTALS** **16**

+ Prerequisites: See Course Descriptions.  
# Capstone course

# Personal Fitness Trainer

## PERSONAL FITNESS TRAINER

### Personal Fitness Trainer

#### Associate of Applied Science Degree

The PFT Associate of Applied Science curriculum is a sixty-hour degree program that is designed to integrate the educational and practical training skills needed to be an exercise professional, and also caters to the individual who may have plans to continue his/her education. The PFT Associate of Applied Science relies on a strong battery of support courses that not only provides a more comprehensive education when compared to the Certificate path, but also allows the option to transfer many courses to four-year institutions. The degree can be completed in a five-semester format although there is opportunity to alter the course sequencing based on individual student needs and circumstances. Please contact 223-6040 or visit [www.austincc.edu/physfit](http://www.austincc.edu/physfit) for more information. NOTE: Student must hold current CPR certification in order to be awarded PFT Associate of Science Degree.

Semester I		Credit Hours
+	<b>BIOL 2101</b> Human Anatomy Lab	1
+	<b>BIOL 2304</b> Human Anatomy Lecture OR	3
	<b>BIOL 2401</b> Anatomy & Physiology I	
	<b>FITT 1401</b> Fitness and Exercise Testing	4
	Oral Communication <sup>1</sup>	3
+	<b>FITT 1313</b> Exercise Science	3
		-----
		14
Semester IV		Credit Hours
+	<b>BIOL 2305</b> Human Physiology Lecture	3
+	<b>BIOL 2102</b> Human Physiology Lab OR	1
+	<b>BIOL 2402</b> Anatomy and Physiology II	
	<b>KINE 1306</b> First Aid and Safety	3
	Mathematics <sup>2</sup>	3
+	<b>FITT 2409</b> Theory of Exercise Program Design and Instruction	4
		-----
		14
Semester III		Credit Hours
	<b>FITT 2301</b> Lifestyle Change for Wellness	3
	Social and Behavioral Science <sup>3</sup>	3
+	<b>BIOL 1323</b> Human Nutrition OR	3
	<b>BIOL 1322</b> Contemporary Issues in Nutrition	
	<b>ENGL 1301</b> English Composition I	3
		-----
		12
Semester IV		Credit Hours
	<b>COSC 1301</b> Personal Computing OR	3
	<b>COSC 1300</b> Introduction to Computing	
+	<b>FITT 1343</b> Performance Enhancement for Athletics	3
+	<b>FITT 2231</b> Group Exercise Instruction	2
+	Humanities/Fine Arts <sup>4</sup>	3
	<b>FITT 2333</b> Fitness Industry Operations and Technology	3
		-----
		14
Semester V		Credit Hours
	Restricted Elective <sup>5</sup>	3
+#	<b>FITT 2364</b> Fitness Technology Practicum	3
		-----
		6
		-----
<b>TOTALS</b>		<b>60</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Oral Communication section of the General Education Course list.

<sup>2</sup> Select from Computational Skills section of the General Education Course list.

<sup>3</sup> Select from Social/Behavioral Sciences section of the General Education Course list.

<sup>4</sup> Select from Humanities/Fine Arts section of the General Education Course list.

<sup>5</sup> Students must take either FITT 2280 and KINE 1108 or KINE 1145 or select KINE 1108, KINE 1145 and one additional KINE course.

## Personal Fitness Trainer

### Certificate

The Certificate Program curriculum is a thirty-six hour program designed to offer focused instruction in the field of exercise science with minimal commitment to support course work. It is an Excellent choice for current professionals wanting to update their skills or individuals who desire instruction in the field of fitness. The Certificate articulates with the Personal Fitness Trainer Associate of Applied Science such that graduates of the certificate can choose to continue in the A.A.S. degree. The certificate is outlined in a three-semester format although students, with proper advising, can adapt the curriculum structure based on individual circumstances. Please contact 223-6040 or visit [www.austincc.edu/physfit](http://www.austincc.edu/physfit) for more information. Note: Students must hold current CPR certification in order to be awarded the PFT certificate.

Semester I		Credit Hours
	<b>BIOL 2401</b> Anatomy & Physiology I	4
	<b>FITT 1401</b> Fitness and Exercise Testing	4
+	<b>FITT 1313</b> Exercise Science	3
	<b>FITT 2301</b> Lifestyle Change for Wellness	3
	<b>BIOL 1322</b> Contemporary Issues in Nutrition	3
		-----
		17
Semester II		Credit Hours
+	<b>BIOL 2402</b> Anatomy and Physiology II	4
+	<b>FITT 2409</b> Theory of Exercise Program Design and Instruction	4
+	<b>FITT 1343</b> Performance Enhancement for Athletics	3
+	<b>FITT 2231</b> Group Exercise Instruction	2
	<b>FITT 2333</b> Fitness Industry Operations and Technology	3
		-----
		16
Semester III		Credit Hours
+#	<b>FITT 2364</b> Fitness Technology Practicum <sup>1</sup>	3
		-----
		3
		-----
<b>TOTALS</b>		<b>36</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## PHARMACY TECHNICIAN

### Pharmacy Technician

#### Certificate

The Pharmacy Technician is an integral member of the health care team. Pharmacy Technicians work with pharmacists in the preparation and distribution of pharmaceutical products in a variety of health care settings, including hospital and community pharmacies. Duties of a Pharmacy Technician include: data entry, counting, pouring and labeling pharmaceutical products, customer service, sterile product preparation, and inventory management. The Pharmacy Technician program is a one-year certificate that combines classroom and laboratory instruction with clinical experiences in local pharmacies. The program accepts students each fall for evening classes and each spring for morning classes. Upon completion of the program, students are eligible to take the national Pharmacy Technician Certification Exam.

Admission to the college does not guarantee admission to the Pharmacy Technician program. Applicants admitted to the program are required to have a physical examination, documentation of immunizations, and verification of tuberculosis status.

Pharmacy Technician applicants must take the assessment test (or the TASP) reading and math portions prior to being considered for acceptance.

This Pharmacy Technician program is accredited by the American Society of Health-System Pharmacists (ASHP), 7272 Wisconsin Avenue, Bethesda, MA, 20814; phone (301) 657-3000.

Students must consult with the Pharmacy Technician Program Coordinator and be accepted into the program prior to enrolling for any PHRA course, except PHRA 1301.

<b>Semester I</b>	<b>Credit Hours</b>
HPRS 1206 Medical Terminology	2
PHRA 1301 Introduction to Pharmacy	3
+ PHRA 1209 Pharmaceutical Mathematics I	2
+ PHRA 1413 Community Pharmacy Practice	4
+ PHRA 1449 Institutional Pharmacy Practice	4
	-----
	15
<b>Semester II</b>	
+ PHRA 1441 Pharmacy Drug Therapy and Treatment	4
+ PHRA 1345 Intravenous Admixture and Sterile Compounding	3
+# PHRA 2266 Practicum-Pharmacy Technician/Assistant	2
	-----
	9
	-----
<b>TOTALS</b>	<b>24</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## PHILOSOPHY

### Philosophy

#### Associate of Arts Degree

The Associate of Arts degree in philosophy provides students with the foundation for a Bachelor of Arts degree in philosophy. All unspecified courses in the degree plan must be selected from the appropriate component area of the 42-hour Core Curriculum.

<b>Semester I</b>	<b>Credit Hours</b>
<b>ENGL 1301</b> English Composition I	3
History	3
Foreign Language <sup>1</sup>	5
Oral Communication	3
<b>PHIL 1301</b> Introduction to Philosophy	3
	-----
	17
<b>Semester II</b>	
+ <b>ENGL 1302</b> English Composition II	3
History	3
+ Foreign Language <sup>1</sup>	5
+ Mathematics	3
<b>PHIL 2306</b> Ethics	3
	-----
	17
<b>Semester III</b>	
<b>GOVT 2306</b> Texas State and Local Government	3
+ Natural Science	3-4
Visual/Performing Arts	3
<b>PHIL 2303</b> Logic	3
+ <b>PHIL 2316</b> History of Philosophy I	3
	-----
	15-16
<b>Semester IV</b>	
<b>GOVT 2305</b> United States Government	3
+ Natural Science	3-4
Social and Behavioral Science	3
+ <b>PHIL 2317</b> History of Philosophy II	3
<b>PHIL 2307</b> Introduction to Social and Political Philosophy OR	3
<b>PHIL 2321</b> Philosophy of Religion	3
	-----
	15-16
	-----
<b>TOTALS</b>	<b>64-66</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> All foreign language hours must be in the same language.

# Photographic Technology

## PHOTOGRAPHIC TECHNOLOGY

### Advertising-Fashion Focus

#### Associate of Applied Science Degree

This program provides learning experience in theory, laboratory, and studio work in portrait and commercial photography for job entry in studios and color labs. Assignments also include photography of products, architecture, and fashions. Supporting skills in processing films, making prints by contact and enlarging, retouching prints and negatives, and drymounting are included. Graduates of this program qualify for jobs as photographer's assistants, laboratory workers, studio managers or owners. Minor variations desirable for student career goals may be accomplished within college policies by approval of the Program Coordinator.

Semester I			Credit Hours
+	PHTC 2401	Intermediate Photography	4
+	PHTC 1441	Color Photography I–Darkroom	4
+	PHTC 1321	Photographic Retouching I	3
+		Mathematics <sup>1</sup>	3
			-----
			14
Semester II			Credit Hours
+	PHTC 1441	Color Photography I–Darkroom OR	3-4
+	PHTC 2341	Color Photography II–Darkroom	
+	PHTC 1449	Photo Digital Imaging I	4
	BUSG 2309	Small Business Management	3
	ENGL 1301	English Composition I	3
+	PHTC 1445	Illustrative Photography I	4
			-----
			17-18
Semester III			Credit Hours
+	PHTC 2445	Illustrative Photography II <sup>2</sup>	4
+	PHTC 1441	Color Photography I–Darkroom OR	3-4
+	PHTC 1302	Darkroom Techniques	
+	PHTC 1328	Photographic Studio Management	3
	SPCH 1315	Fundamentals of Public Speaking	3
			-----
			13-14
Semester IV			Credit Hours
	PHTC 1313	History of Photography	3
+		Humanities/Fine Arts	3
		Social and Behavioral Science	3
+	PHTC 2449	Photo Digital Imaging II	4
		Restricted Elective <sup>2,3</sup>	3
			-----
			16
Semester V			Credit Hours
		Restricted Elective <sup>2,4</sup>	3
+#	PHTC 2343	Commercial Photography	3
			-----
			6
			-----
<b>TOTALS</b>			<b>66-68</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Computational Skills section of the General Education Course list.

<sup>2</sup> PHTC 1306, PHTC 2351, PHTC 2445 - Students are encouraged to use

outside photo labs instead of darkroom courses enabling them to develop a working professional relationship.

<sup>3</sup> Select from the following courses: PHTC 2378, PHTC 1343, PHTC 1306.

<sup>4</sup> Select from the following courses: PHTC 2331, PHTC 1351, PHTC 2351.

### People-Portrait Focus

#### Associate of Applied Science Degree

This program provides learning experience in theory, laboratory, and studio work in portrait and commercial photography for job entry in studios and color labs. Assignments include portraiture of men, women, children, and groups in studio and on location using electronic flash or natural light. Supporting skills in processing films, making prints by contact and enlarging, retouching prints and negatives, and drymounting are included. Graduates of this program qualify for jobs as photographer's assistants, laboratory workers, studio managers or owners. Minor variations desirable for student career goals may be accomplished within college policies by approval of the Program Coordinator.

Semester I			Credit Hours
+	PHTC 2401	Intermediate Photography	4
+	PHTC 1441	Color Photography I–Darkroom	4
+	PHTC 1321	Photographic Retouching I	3
+		Mathematics <sup>1</sup>	3
			-----
			14
Semester II			Credit Hours
+	PHTC 1441	Color Photography I–Darkroom OR	3-4
+	PHTC 2341	Color Photography II–Darkroom	
+	PHTC 1449	Photo Digital Imaging I	4
	BUSG 2309	Small Business Management	3
+	PHTC 1453	Portraiture I	4
			-----
			14-15
Semester III			Credit Hours
	ENGL 1301	English Composition I	3
	SPCH 1315	Fundamentals of Public Speaking	3
+	PHTC 1328	Photographic Studio Management	3
+	PHTC 2453	Portraiture II <sup>2</sup>	4
+	PHTC 1441	Color Photography I–Darkroom OR	3-4
+	PHTC 1325	Photographic Science I	
			-----
			16-17
Semester IV			Credit Hours
		Restricted Elective <sup>2,3</sup>	3
		Social and Behavioral Science	3
	PHTC 1313	History of Photography	3
+	PHTC 2449	Photo Digital Imaging II	4
+		Humanities/Fine Arts	3
			-----
			16

# Photographic Technology

<b>Semester V</b>		
+ # PHTC 2343	Commercial Photography	3
	Restricted Elective <sup>2/4</sup>	3-4
		-----
		6-7
		-----
<b>TOTALS</b>		<b>66-69</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Computational Skills section of the General Education Course list.

<sup>2</sup> PHTC 1306, PHTC 2351, PHTC 2453 - Students are encouraged to use outside photo labs instead of darkroom courses enabling them to develop working professional relationships.

<sup>3</sup> Select from the following courses: PHTC 2378, PHTC 1343, PHTC 1306.

<sup>4</sup> Select from the following courses: PHTC 1347, PHTC 2433, PHTC 2351.

## Photographer's Assistant

### Certificate

Students successfully completing this program are training for careers as photographer's assistants. They are prepared to follow instructions by their employers, set up and operate complex equipment, interact with stylists and art directors, do photographic lab, and administrative duties in support of the lead photographer. Minor variations desirable for student career goals may be accomplished within college policies by approval of the Program Coordinator.

<b>Semester I</b>		<b>Credit Hours</b>
PHTC 1311	Fundamentals of Photography	3
BUSG 2309	Small Business Management	3
ENGL 1301	English Composition I	3
		-----
		9

<b>Semester II</b>		
+ PHTC 1441	Color Photography I-Darkroom	4
+ PHTC 1449	Photo Digital Imaging I	4
+ PHTC 2401	Intermediate Photography	4
KINE 1145	Weight Training I	1
		-----
		13

<b>Semester III</b>		
PHTC 1313	History of Photography OR	3
+ PHTC 1325	Photographic Science I	
+ # PHTC 1445	Illustrative Photography I	4
+ PHTC 2449	Photo Digital Imaging II	4
+ # PHTC 1441	Color Photography I-Darkroom	4
		-----
		15

**TOTALS** **37**

+ Prerequisites: See Course Descriptions.

# Capstone course

## Photographic Artist

### Certificate

Students successfully completing this program are prepared for careers as photographic retouchers, print finishers, and print colorists, print restorers, and print copiers, and can perform the duties of a photographer's assistant in simple portrait and product photography, film processing, and print making. Job opportunities are found in studios, color labs, archives, and the film animation industry. The sit-down nature of much of the program makes the training ideally suited for the mobility impaired. Trainees should have good artistic sense, creative ability, fine visual acuity, accurate color perception, and Excellent eye-hand coordination. Employment opportunities are considered to be above average. Minor variations desirable for student career goals may be accomplished within college policies by approval of the Program Coordinator.

<b>Semester I</b>		<b>Credit Hours</b>
PHTC 1311	Fundamentals of Photography	3
+ PHTC 1321	Photographic Retouching I	3
ENGL 1301	English Composition I	3
ARTC 1413	Digital Publishing I	4
		-----
		13

<b>Semester II</b>		
+ # PHTC 1441	Color Photography I-Darkroom	4
+ PHTC 1449	Photo Digital Imaging I	4
+ PHTC 2401	Intermediate Photography	4
+ PHTC 2473	Photographic Retouching II	4
		-----
		16

<b>Semester III</b>		
PHTC 1313	History of Photography OR	3
+ PHTC 1325	Photographic Science I	
PSYC 2315	Psychology of Adjustment	3
+ PHTC 2449	Photo Digital Imaging II	4
		-----
		10

**TOTALS** **39**

+ Prerequisites: See Course Descriptions.

# Capstone course

# Physical Therapist Assistant

## PHYSICAL THERAPIST ASSISTANT

### Physical Therapist Assistant

#### Associate of Applied Science Degree

Physical therapist assistants perform physical therapy treatments and other duties under the supervision of a physical therapist. These may include teaching patients to walk again, helping them to learn to use an artificial limb, and helping them to learn to coordinate movement. They observe patients during treatment to gather information on their responses and progress and to report findings to the physical therapist, either orally or in writing. They also instruct patients in the use and care of artificial limbs, braces, and other devices such as crutches, canes, walkers, and wheelchairs. Heat, cold, ultrasound, electricity and massage may also be administered as part of the physical therapy program. Physical therapy personnel are needed in hospitals of all types, rehabilitation centers, and nursing homes. Clinics and community health agencies also offer employment opportunities. Texas requires that a licensure exam be successfully completed after graduation in order to practice as a PTA in this state. Upon applying to take the licensing examination, the student will have to answer questions about his/her drug, alcohol, psychiatric, and/or conviction history for determination of eligibility to take the national licensing exam. **ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE PTA PROGRAM.** Each applicant to the PTA program must complete a minimum of forty (40) hours as a volunteer/aide in a physical therapy facility. This Program is nationally accredited through the Commission on Accreditation of Physical Therapy Education of the American Physical Therapy Association, 1111 North Fairfax St., Alexandria, VA 22314-1488; (703) 706-3245. Admission criteria may be obtained from the Physical Therapist Assistant Program Office or by visiting the program web site at <http://www2.austincc.edu/pta>. Students accepted into the program are required to have a physical examination, provide documentation of immunizations, and verify annual tuberculosis status.

Prerequisites	Credit Hours
ENGL 1301 English Composition I	3
PSYC 2301 Introduction to Psychology	3
BIOL 2401 Anatomy & Physiology I	4
+ MATH 1333 Mathematics for Measurement	3
	-----

13

#### Fall Semester

+ BIOL 2402 Anatomy and Physiology II	4
+ PTHA 1409 Introduction to Physical Therapy	4
+ PTHA 1513 Functional Anatomy	5
HPRS 1106 Medical Terminology PCM	1
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14

#### Spring Semester

	Oral Communication <sup>1</sup>	3
+ PTHA 1321	Clinical Pathophysiology	3
+ PTHA 2409	Therapeutic Exercise	4
+ PTHA 2301	Assessment Skills	3
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13

#### Summer Semester

+ PTHA 2205	Clinical Neurology	2
+ PTHA 1431	Physical Agents	4
	-----	

6

#### Fall Semester

+ PSYC 2314	Human Growth and Development	3
+ PTHA 2435	Rehabilitation Techniques	4
+ PTHA 1266	Practicum-PTA	2
	-----	

9

#### Spring Semester

+ PTHA 2431	Humanities/Fine Arts <sup>2</sup>	3
+ PTHA 2431	Management of Neurological Disorders	4
+ PTHA 1267	Practicum-PTA	2
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9

#### Summer Semester

PTHA 2230	Current Concepts in Physical Therapy	2
+ # PTHA 2267	Practicum PTA	2
+ PTHA 2239	Professional Issues	2
	-----	

6

#### TOTALS

70

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Oral Communication section of the General Education Course list.

<sup>2</sup> Select from Humanities/Fine Arts section of the General Education Course list, with PTA Program Coordinator approval.

### PHYSICS

#### Physics

##### Associate of Science Degree

The Associate of Science in Physics is intended to match, within the constraints of the Core Curriculum, the course of study for the first two years in a typical university physics program. To receive an Associate of Science in Physics, students must: (a) make a minimum grade of "C" in all required math and science courses and (b) have an overall GPA of 2.0 or greater.

Semester I	Credit Hours
+ CHEM 1411 General Chemistry I	4
ENGL 1301 English Composition I	3
COSC 1315 Fundamentals of Programming	3
+ MATH 2413 Calculus I <sup>1</sup>	4
+ Humanities <sup>2</sup>	3
-----	
	17
Semester II	Credit Hours
+ ENGL 1302 English Composition II <sup>3</sup>	3
HIST 1301 United States History I <sup>4</sup>	3
+ MATH 2414 Calculus II	4
+ CHEM 1412 General Chemistry II	4
Oral Communication <sup>5</sup>	3
-----	
	17
Semester III	Credit Hours
HIST 1302 United States History II <sup>4</sup>	3
GOVT 2305 United States Government	3
+ MATH 2415 Calculus III	4
+ PHYS 2425 Engineering Physics I <sup>6</sup>	4
Visual and Performing Arts <sup>7</sup>	3
-----	
	17
Semester IV	Credit Hours
GOVT 2306 Texas State and Local Government	3
+ MATH 2420 Differential Equations	4
+ PHYS 2426 Engineering Physics II <sup>8</sup>	4
Social and Behavioral Science <sup>9</sup>	3
+ Humanities <sup>2</sup>	3
-----	
	17
<b>TOTALS</b>	<b>68</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Students should consult with a Mathematics faculty advisor since one or more mathematics courses may be required before enrolling in MATH 2413.

<sup>2</sup> Select from Humanities/Fine Arts section of the Core Curriculum Course list.

<sup>3</sup> Or any ENGL course which will satisfy the legislative requirement; consult an English faculty advisor.

<sup>4</sup> Or any HIST course which will satisfy the legislative requirement; consult a History faculty advisor.

<sup>5</sup> Select any Speech course from Communication section of the Core Curriculum Course list.

<sup>6</sup> Students lacking one full year of (recent) high school physics should take PHYS 1401/1402 or PHY 1653 before enrolling in PHYS 2425. All students must complete MATH 2413 before enrolling in PHYS 2425.

<sup>7</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

<sup>8</sup> Credit for PHYS 2425 and credit for MATH 2414 are strictly required prerequisites for PHYS 2426.

<sup>9</sup> Select from Other Social and Behavioral Science section of the Core Curriculum Course list.

### PREMED

#### Pre-Dental/Pre-Medical/ Pre-Pharmacy/Pre-Veterinary

##### Associate of Science Degree

The Associate of Science degree is intended to provide students with the first two years of College Science education. To receive an Associate of Science degree in Pre-Dental/Pre-Medical/Pre-Pharmacy/Pre-Veterinary, students must: (a) make a minimum grade of "C" in all required math and science courses and (b) have an overall GPA of 2.0 or greater.

Semester I	Credit Hours
+ BIOL 1406 Cellular and Molecular Biology	4
+ CHEM 1411 General Chemistry I	4
ENGL 1301 English Composition I	3
+ Mathematics <sup>1</sup>	3-4
SPCH Oral Communication <sup>2</sup>	3
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	17-18
Semester II	Credit Hours
+ BIOL 1407 Structure and Function of Organisms	4
+ CHEM 1412 General Chemistry II	4
+ ENGL 1302 English Composition II	3
HIST History <sup>3</sup>	3
+ Mathematics <sup>4</sup>	3-4
+ Humanities <sup>5</sup>	3
-----	
	20-21
Semester III	Credit Hours
+ CHEM 2423 Organic Chemistry I	4
GOVT 2305 United States Government	3
History <sup>6</sup>	3
+ PHYS 1401 General College Physics I OR	4
+ PHYS 2425 Engineering Physics I	4
+ Humanities <sup>5</sup>	3
-----	
	17
Semester IV	Credit Hours
+ CHEM 2425 Organic Chemistry II	4
GOVT 2306 Texas State and Local Government	3
+ PHYS 1402 General College Physics II OR	4
+ PHYS 2426 Engineering Physics II	4
Visual and Performing Arts <sup>7</sup>	3
Social and Behavioral Science <sup>8</sup>	3
-----	
	17
<b>TOTALS</b>	<b>71-73</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from the following courses: MATH 1314, MATH 1316, MATH 2412, MATH 2413. Students must confer with a mathematics advisor.

<sup>2</sup> Select any Speech course from Communications section of the Core Curriculum Course list.

<sup>3</sup> Select from the following courses: HIST 1301, HIST 2381, HIST 2380, HIST 2301.

<sup>4</sup> Select from the following courses: MATH 1316, MATH 2412, MATH 2413, MATH 2414.

<sup>5</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>6</sup> Select from the following courses: HIST 1302, HIST 2381, HIST 2380, HIST 2341.

<sup>7</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

<sup>8</sup> Select from Other Social and Behavioral Science section of the Core Curriculum Course list.

## PSYCHOLOGY

### Psychology

#### Associate of Arts Degree

The Associate of Arts degree in Psychology is intended to provide students with the first two years of general requirements and a basis in psychology that will prepare them for transfer to an institution which grants a baccalaureate degree.

Special note: Students who plan to transfer to an institution which grants a baccalaureate degree to continue their study of psychology should refer to the catalog of that institution and consult with an ACC instructor of psychology.

Semester I	Credit Hours
PSYC 2301 Introduction to Psychology	3
ENGL 1301 English Composition I	3
History <sup>1</sup>	3
GOVT 2305 United States Government	3
Oral Communication <sup>2</sup>	3
	15
<b>Semester II</b>	
+ MATH 1332 College Mathematics OR	3
+ MATH 1314 College Algebra	3
+ ENGL 1302 English Composition II	3
History <sup>3</sup>	3
GOVT 2306 Texas State and Local Government	3
Psychology Elective <sup>4</sup>	3
	15
<b>Semester III</b>	
+ PSYC 2317 Statistical Methods for the Behavioral Sciences	3
English Elective from Humanities <sup>5</sup>	3
Visual and Performing Arts <sup>6</sup>	3
+ Natural Science <sup>7</sup>	3-4
+ Foreign Language <sup>8</sup>	4-5
	16-18
<b>Semester IV</b>	
+ PSY 2663 Research Methods in Psychology	3
Psychology Elective <sup>4</sup>	3
+ Humanities <sup>9</sup>	3
+ Natural Science <sup>7</sup>	3-4
+ Foreign Language <sup>8</sup>	4-5
	16-18
<b>TOTALS</b>	<b>62-66</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from the following courses: HIST 1301, HIST 2381, HIST 2380, HIST 2301, HIST 2341.

<sup>2</sup> Select any Speech course from the Communications section of the Core Curriculum Course list.

<sup>3</sup> Select from the following courses: HIST 1302, HIS 1643, HIST 1663, HIST 2301, HIST 2341.

<sup>4</sup> Psychology Elective. Students can choose from: PSYC 2306, PSYC 2309, PSYC 2314, PYSC 2315, PSYC 2316, PSYC 2319, PSYC 2389 or PSY 2673, or from a related area such as SOCW 2361.

<sup>5</sup> Select an English elective from Humanities section of the Core Curriculum Course list.

<sup>6</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

<sup>7</sup> Select from Natural Sciences section of the Core Curriculum Course list. At least one Natural Science course chosen must have a lab component.

<sup>8</sup> Foreign language hours must be in the same language.

<sup>9</sup> Select from Humanities section of the Core Curriculum Course list.

## QUALITY ASSURANCE

### Quality Management and Technology

#### Associate of Applied Science Degree

This award is deactivated August 31, 2003.

Semester I	Credit Hours
QCTC 1343 Quality Assurance	3
ENGL 1301 English Composition I	3
SPCH 1311 Introduction to Speech Communication	3
+ MATH 1314 College Algebra	3
Restricted Elective <sup>1</sup>	2-4
	14-16
<b>Semester II</b>	
+ QCTC 1341 Statistical Process Control	3
+ QCTC 1303 Quality Control	3
+ QCTC 1401 Total Quality Management	4
+ ENGL 2311 Technical & Business Writing	3
Restricted Elective <sup>1</sup>	3-4
	16-17
<b>Semester III</b>	
QCTC 1305 Teaming	3
+ QCTC 1448 Metrology	4
COSC 1300 Introduction to Computing OR	3
+ ITSC 1325 Personal Computer Hardware	3
Social and Behavioral Science <sup>2</sup>	3
Restricted Elective <sup>1</sup>	3-4
	16-17
<b>Semester IV</b>	
+ # QCTC 2331 Standards	3
+ QCTC 1446 Testing and Inspection Systems	4
QCTC 1491 Special Topics in Quality Control	4
Technology/Technician	4
Restricted Elective <sup>1</sup>	3-4
+ Humanities/Fine Arts <sup>3</sup>	3
	17-18
<b>TOTALS</b>	<b>63-68</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Option Electives: QCTC 1242, CHEM 1411, CHEM 1412, CHEM 2423, CHEM 2425, BIOL 1406, BIOL 1407, BIOL 1323, BIOL 1420, BIOL 1404, BIOL 2420, MCHN 1419, DFTG 1405, WLDG 2411, PHY 1634, CETT 1403, CETT 1405, CETT 1429, CETT 1421, HPRS 1206, HPRS 2300, SCWK 1391.

<sup>2</sup> Select from Social and Behavioral Science section of the General Education Course list.

<sup>3</sup> Select from Humanities/Fine Arts section of the General Education Course list.

## Quality Management and Technology

### Certificate

This award is deactivated August 31, 2003.

<b>Semester I</b>		<b>Credit Hours</b>
+ MATH 1332	College Mathematics OR	3
+ MATH 1314	College Algebra	
	QCTC 1343 Quality Assurance	3
+ QCTC 1401	Total Quality Management	4
+ QCTC 1341	Statistical Process Control	3
		-----
		13
<b>Semester II</b>		
+ QCTC 1303	Quality Control	3
# QCTC 1491	Special Topics in Quality Control Technology/Technician	4
	Restricted Elective <sup>1</sup>	3-4
	Restricted Elective <sup>1</sup>	3-4
		-----
		13-15
		-----
<b>TOTALS</b>		<b>26-28</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> QCTC Electives: QCTC 1242, QCTC 1305, QCTC 1446, QCTC 1448, QCTC 2331.

## RADIO-TELEVISION-FILM

### Radio-Television-Film

#### Associate of Arts Degree

The Associate of Arts degree provides students with the first two years of college Radio-Television-Film education.

<b>Semester I</b>		<b>Credit Hours</b>
<b>ENGL 1301</b>	English Composition I	3
<b>HIST 1301</b>	United States History I Foreign Language <sup>1</sup>	3 5
<b>COMM 1335</b>	Introduction to Radio and Television Oral Communication <sup>2</sup>	3 3
		-----
		17
<b>Semester II</b>		
+ <b>ENGL 1302</b>	English Composition II	3
<b>HIST 1302</b>	United States History II Foreign Language <sup>1</sup>	3 5
+ Radio-Television-Film Elective <sup>3</sup>		3
	Social and Behavioral Science <sup>4</sup>	3
		-----
		17
<b>Semester III</b>		
<b>GOVT 2305</b>	United States Government Literature <sup>5</sup>	3 3
+ Radio-Television-Film Elective		3
+ Mathematics <sup>6</sup>		3
	Humanities <sup>7</sup>	3
		-----
		15
<b>Semester IV</b>		
<b>GOVT 2306</b>	Texas State and Local Government Natural Science <sup>8</sup>	3 6-8
+ Visual and Performing Arts <sup>9</sup>		3
	Radio-Television-Film Elective	3
		-----
		15-17
		-----
<b>TOTALS</b>		<b>64-66</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Foreign language hours must be in the same language.

<sup>2</sup> RTF students are encouraged to take COMM 2331. However, they may take SPCH 1311 or SPCH 1315. Students are encouraged to satisfy the Speech requirements of the Core Curriculum.

<sup>3</sup> The second semester Radio-Television-Film course must be chosen from the following: DRAM 2366, RTF 1624, COMM 2331, COMM 1336, RTF 2113, COMM 2339, or COMM 2325.

<sup>4</sup> Select from Social and Behavioral Science section of the Core Curriculum Course list.

<sup>5</sup> The literature course must be chosen from the following: ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343.

<sup>6</sup> Select from Mathematics section of the Core Curriculum Course list.

<sup>7</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>8</sup> Select from Natural Science section of the Core Curriculum Course list.

<sup>9</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

## Industrial Video

### Certificate

Prerequisites	Credit Hours
COMM 1335 Introduction to Radio and Television	3
	-----
	3
<b>Semester I</b>	
ENGL 1301 English Composition I	3
+ RTF 1733 Workshop	3
+ COMM1336 Television Production I	3
	-----
	9
<b>Semester II</b>	
+ COMM2325 Audio Production	3
COMM2331 TV and Radio Announcing	3
+# RTVB 1364 Practicum (or Field Experience)–Radio and Television Broadcasting	3
	-----
	9
	-----
<b>TOTALS</b>	<b>21</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Industrial Video Production Management

### Certificate

Prerequisites	Credit Hours
COMM 1335 Introduction to Radio and Television	3
	-----
	3
<b>Semester I</b>	
ENGL 1301 English Composition I	3
+ RTF 1733 Workshop	3
+ RTVB 2347 Management and Operation of Electronic Media	3
+ COMM1336 Television Production I	3
	-----
	12
<b>Semester II</b>	
+ COMM2325 Audio Production	3
+ COMM1337 Television Production II	3
COMM2331 TV and Radio Announcing	3
+# RTVB 1364 Practicum (or Field Experience)–Radio and Television Broadcasting	3
	-----
	12
	-----
<b>TOTALS</b>	<b>27</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## RADIOLOGY

### Radiology

#### Associate of Applied Science Degree

This program provides radiologic technology and clinical experience with general education courses in the arts and sciences and is designed to prepare persons for the safe use of x-ray equipment in clinical settings under the supervision of a radiologist or other physician. Students are eligible to take the national credentialing examination administered by the American Registry of Radiologic Technologists upon successful completion of the prescribed curriculum. The Texas Department of Health, Medical Radiologic Technologist Certification Program also requires that graduates of the Radiography Program apply for State Certification/Licensure. It should be noted that both of these agencies require that the applicant disclose any history of felonies or misdemeanors. Applicants with a history of a felony or misdemeanor should contact the program department chair for additional information and may also submit a Pre-Application Review of Eligibility Form to the American Registry of Radiologic Technologists to determine their eligibility to take the credentialing examination.

The Program is nationally accredited by the Joint Review Committee on Education in Radiologic Technology, 20 North Wacker Drive, Suite 900. Chicago, IL 60606-2901; phone (312) 704-5300; Website: <http://www.jrcert.org>

ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE RADIOLOGIC TECHNOLOGY PROGRAM AND ENROLLMENT IS LIMITED.

Students accepted into the program are required to have a physical examination, provide documentation of immunization, and must verify annual tuberculosis status.

Prerequisites	Credit Hours
+ MATH 1314 College Algebra	3
BIOL 2401 Anatomy and Physiology I	4
	-----
	7
<b>Fall Semester</b>	
+ RADR 1317 Radiographic Anatomy & Physiology I	3
+ RADR 1309 Introduction to Radiography and Patient Care	3
+ RADR 1213 Principles of Radiographic Imaging I	2
+ RADR 1411 Basic Radiographic Procedures	4
	-----
	12
<b>Spring Semester</b>	
+ RADR 2431 Advanced Radiographic Procedures	4
+ RADR 2209 Radiographic Imaging Equipment	2
+ RADR 2205 Principles of Radiographic Imaging II	2
+ RADR 1360 Clinical/Medical Radiologic Technology I	3
ENGL 1301 English Composition I	3
	-----
	14

# Radiology

## Summer Semester

+ RADR 2240	Sectional Anatomy for Medical Imaging	2
+ RADR 2213	Radiation Biology and Protection	2
+ RADR 1361	Clinical/Medical Radiologic Technology II	3
SPCH 1315	Fundamentals of Public Speaking	3
		-----
		10

## Fall Semester

+ RADR 2217	Radiographic Pathology	2
+ RADR 2274	Advanced Technical Principles	2
+ RADR 2460	Clinical-Medical Radiologic Technology III	4
PHIL 2306	Ethics <sup>1</sup>	3
		-----
		11

## Spring Semester

+ RADR 2233	Advanced Medical Imaging	2
+ RADR 2461	Clinical-Medical Radiologic Technology IV	4
PSYC 2301	Introduction to Psychology	3
COSC 1300	Introduction to Computing	3
		-----
		12

## Summer Semester

+# RADR 2335	Radiologic Technology Seminar	3
+ RADR 2362	Clinical-Medical Radiologic Technology V	3
		-----
		6

**TOTALS** **72**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Or from approved Humanities/Fine Arts section of the General Education Course list.

## Computerized Tomography

### Certificate

This certificate program provides advanced classroom and clinical instruction in Computerized Tomography. Admission is limited to American Registry of Radiologic Technologists certified applicants. Completion of the prescribed curriculum will help prepare the student for the Advanced Certification Examination in Computerized Tomography administered by the American Registry of Radiologic Technologists. Admission to the college does not guarantee admission to the program and enrollment is limited.

#### Fall Semester Credit Hours

+ RADR 2271	Sectional Anatomy and Patient Care	2
+ CTMT 2232	Principles of Computerized Tomography	2
+ CTMT 2460	Clinical-Computed Tomography Technology/Technician: Technical-Medical Rad Tech-CT 1	4
		-----
		8

## Spring Semester

+ CTMT 2273	Computerized Tomography Procedures and Special Studies	2
+# CTMT 2461	Clinical-Computed Tomography Technology/Technician: Technical-Medical Rad Tech CT 2	4
		-----
		6

**TOTALS** **14**

+ Prerequisites: See Course Descriptions.

# Capstone course

## Magnetic Resonance Imaging

### Certificate

This certificate program provides advanced classroom and clinical instruction in Magnetic Resonance Imaging. Admission is limited to American Registry of Radiologic Technologists certified applicants. Completion of the prescribed curriculum will help prepare the student for the Advanced Certification Examination in Magnetic Resonance Imaging administered by the American Registry of Radiologic Technologists. Admission to the college does not guarantee admission to the program and enrollment is limited.

#### Fall Semester Credit Hours

+ RADR 2271	Sectional Anatomy and Patient Care	2
+ MRIT 2230	Principles of Magnetic Resonance Imaging	2
+ MRIT 2460	Clinical-Magnetic Resonance Imaging Technology/Technician: Medical Rad MRI I	4
		-----
		8

#### Spring Semester

+ MRIT 2276	Magnetic Resonance Physics and Procedures	2
+# MRIT 2461	Clinical-Magnetic Resonance Imaging Technology/Technician	4
		-----
		6

**TOTALS** **14**

+ Prerequisites: See Course Descriptions.

# Capstone course

## Cardiovascular Interventional Radiology

### Certificate

This certificate program provides classroom and clinical instruction in advanced techniques in cardiovascular and interventional radiology. Admission is limited to American Registry of Radiologic Technologists certified applicants. Completion of the prescribed curriculum will help prepare the student for the Advanced Certification Examination in Cardiovascular-Interventional Radiology administered by the American Registry of Radiologic Technologists. Admission to the college does not guarantee admission to the program and enrollment is limited.

Students accepted into the program are required to provide documentation of current immunizations.

Semester I	Credit Hours
+ CVIR 2250 Principles of Interventional Radiography I	2
+ CVIR 2364 Practicum–Cardiovascular Interventional Radiology I	3
+ CVIR 2351 Patient Care in Cardiovascular Interventional Radiography	3
	-----
	8
Semester II	
+ CVIR 2253 Principles of Interventional Radiography II	2
+ CVIR 2252 Cardiac Interventional Procedures	2
+# CVIR 2365 Practicum - Cardiovascular Interventional Radiology II	3
	-----
	7
	-----
<b>TOTALS</b>	<b>15</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## REAL ESTATE

### Real Estate Brokers' Licensing

#### Associate of Applied Science Degree

Semester I	Credit Hours
BUSI 1301 Introduction to Business	3
<b>ENGL 1301</b> English Composition I	3
RELE 1406 Real Estate Principles	4
COSC 1301 Personal Computing	3
Restricted Elective <sup>1</sup>	3
	-----
	16
Semester II	
RELE 2301 Law of Agency	3
RELE 1319 Real Estate Finance	3
<b>GOVT 2306</b> Texas State and Local Government	3
+ <b>MATH 1332</b> College Mathematics	3
Restricted Elective <sup>1</sup>	3
	-----
	15
Semester III	
RELE 1321 Real Estate Marketing	3
RELE 1311 Real Estate Contracts	3
RELE 1325 Real Estate Mathematics	3
<b>ECON 2301</b> Principles of Macroeconomics	3
Restricted Elective <sup>1</sup>	3
	-----
	15
Semester IV	
<b>SPCH 1311</b> Introduction to Speech Communication	3
+# RELE 2367 Real Estate Practicum (Field Experience) OR	3
+ RELE 2331 Real Estate Brokerage	3
Restricted Elective <sup>1</sup>	3
Restricted Elective <sup>1</sup>	3
+ Humanities/Fine Arts <sup>3</sup>	3
	-----
	15
	-----
<b>TOTALS</b>	<b>61</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Business Electives may be chosen from the following programs: Real Estate, Management, Accounting, Economics, Marketing, or Financial Management.

<sup>3</sup> Select from Humanities/Fine Arts section of the General Education Course list.

## Real Estate

### Certificate

Semester I	Credit Hours
RELE 1406 Real Estate Principles	3
RELE 1311 Real Estate Contracts	3
RELE 2301 Law of Agency	3
RELE 1319 Real Estate Finance	3
+ RELE 1391 Special Topics in Real Estate– Advanced Inspection OR	3
+# RELE 2367 Real Estate Practicum (Field Experience)	3
	-----
	15
	-----
<b>TOTALS</b>	<b>15</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## SOCIAL WORK

### Social Work

#### Associate of Arts Degree

The Associate Degree program in Social Work is designed to prepare students for entry into the social service profession as a caseworker. In addition, it provides students with the first two years of college for transfer to a baccalaureate-granting institution.

Semester I	Credit Hours
SOCW 2361 Introduction to Social Work	3
ENGL 1301 English Composition I	3
	History <sup>1</sup>
+ MATH 1332 College Mathematics OR	3
+ MATH 1314 College Algebra <sup>2</sup>	
PSYC 2301 Introduction to Psychology	3
+ Natural Science <sup>3</sup>	3-4
-----	
	18-19
<b>Semester II</b>	
	Humanities <sup>4</sup>
+ ENGL 1302 English Composition II	3
	History <sup>5</sup>
+ SOC 2743 Social Statistics	3
SOCI 1301 Introduction to Sociology	3
+ Natural Science <sup>3</sup>	3-4
-----	
	18-19
<b>Semester III</b>	
+ SOC 2653 Research Methods in Sociology	3
GOVT 2305 United States Government	3
+ SOCW 2362 Social Welfare As A Social Institution	3
+ Foreign Language <sup>6</sup>	4-5
	Oral Communication <sup>7</sup>
	3
-----	
	16-17
<b>Semester IV</b>	
+ SOC 2753 Social Services–Field Experience	3
GOVT 2306 Texas State and Local Government	3
+ Foreign Language <sup>6</sup>	4-5
	Humanities <sup>4</sup>
	Visual and Performing Arts <sup>8</sup>
	3
-----	
	16-17
-----	
<b>TOTALS</b>	<b>68-72</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from the following courses: HIST 1301, HIST 2381, HIST 2380, HIST 2301, HIST 2341.

<sup>2</sup> College Algebra (MATH 1314) is recommended for students pursuing a four-year degree.

<sup>3</sup> Select from Natural Sciences section of the Core Curriculum Course list. At least one Natural Science course chosen must have a lab component.

<sup>4</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>5</sup> Select from the following courses: HIST 1302, HIS 1643, HIS 1663, HIST 2301, HIST 2341.

<sup>6</sup> Foreign language hours must be in the same language. Spanish is strongly recommended.

<sup>7</sup> Select a Speech course from Communications section of the Core Curriculum Course list.

<sup>8</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

## SOCIOLOGY

### Sociology

#### Associate of Arts Degree

The Associate of Arts degree in Sociology is intended to provide students with the first two years of sociology courses and to prepare them for transfer to an institution that grants a baccalaureate degree.

Semester I	Credit Hours
SOCI 1301 Introduction to Sociology	3
	History <sup>1</sup>
+ MATH 1332 College Mathematics OR	3
+ MATH 1314 College Algebra <sup>2</sup>	
ENGL 1301 English Composition I	3
	Foreign Language <sup>3</sup>
	4-5
-----	
	16-17
<b>Semester II</b>	
	Restricted Elective <sup>4</sup>
+ ENGL 1302 English Composition II	3
	History <sup>5</sup>
	Foreign Language <sup>3</sup>
	Oral Communication <sup>6</sup>
	3
-----	
	16-17
<b>Semester III</b>	
+ SOC 2743 Social Statistics	3
GOVT 2305 United States Government	3
ANTH 2351 Cultural Anthropology OR	3
ANTH 2301 Physical Anthropology	
+ Natural Science <sup>7</sup>	3-4
+ Humanities <sup>8</sup>	3
-----	
	15-16
<b>Semester IV</b>	
+ SOC 2653 Research Methods in Sociology	3
+ SOCI 2326 Social Psychology	3
GOVT 2306 Texas State and Local Government	3
	Natural Science <sup>7</sup>
	3-4
+ Humanities <sup>8</sup>	3
	Visual and Performing Arts <sup>9</sup>
	3
-----	
	18-19
-----	
<b>TOTALS</b>	<b>65-69</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> Select from the following courses: HIST 1301, HIST 2381, HIST 2380, HIST 2301, HIST 2341.

<sup>2</sup> College Algebra (MATH 1314) is recommended for students pursuing a four-year degree.

<sup>3</sup> Foreign language hours must be in the same language.

<sup>4</sup> Please choose from: SOCI 1306, SOCI 2301, SOCI 2319, SOC 2683, SOCI 2336.

<sup>5</sup> Select from the following courses: HIST 1302, HIS 1643, HIS 1663, HIST 2301, HIST 2341.

<sup>6</sup> Select any Speech course from Communications section of the Core Curriculum Course list.

<sup>7</sup> Select from Natural Sciences section of the Core Curriculum Course list. At least one Natural Sciences course chosen must have a lab component.

<sup>8</sup> Select from Humanities section of the Core Curriculum Course list.

<sup>9</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

## SONOGRAPHY

### Diagnostic Cardiac Sonography

(ECHOCARDIOGRAPHY)

Associate of Applied Science Degree

This degree plan is designed to prepare individuals with limited medical backgrounds for a career as a diagnostic cardiac sonographer (echocardiographer) through classroom study and a supervised clinical experience. **Minimum of Nurse Aid Certification is required.** Upon completion of the prescribed curriculum, the student is eligible to take examinations for the American Registry of Diagnostic Medical Sonographers (ARDMS) certification in Adult Echocardiography. This program is nationally accredited through the Committee on Accreditation of Allied Health Education Programs, 515 North State Street, Chicago, IL 60610; PHONE (312) 464-4695. **ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE PROGRAM. ENROLLMENT IS LIMITED.**

Students accepted into the program are required to have a physical examination and provide documentation of immunizations and must verify annual tuberculosis status.

Prerequisites	Credit Hours
HPRS 1206 Medical Terminology	2
PHIL 2306 Ethics	3
+ MATH 1314 College Algebra	3
BIOL 2401 Anatomy & Physiology I	4
+ BIOL 2402 Anatomy and Physiology II	4
ENGL 1301 English Composition I	3
PSYC 2301 Introduction to Psychology	3
+ PHYS 1401 General College Physics I OR	4
PHYS 1405 Conceptual Physics I	4
	-----
	26
<b>Fall Semester</b>	
SPCH 1315 Fundamentals of Public Speaking	3
+ DSAE 1100 Introduction to Diagnostic Imaging	1
+ DSAE 1315 Principles of Adult Echocardiography	3
+ DSAE 1203 Introduction to Echocardiography Techniques	2
+ DMSO 1302 Basic Ultrasound Physics	3
	-----
	12
<b>Spring Semester</b>	
+ DSAE 2404 Echocardiographic Evaluation of Pathology I	4
+ DSAE 1561 Clinical Echocardiography I	5
+ DMSO 1342 Intermediate Ultrasound Physics	3
	-----
	12
<b>Summer Semester</b>	
+ DSAE 2337 Echocardiographic Evaluation of Pathology II	3
+ DSAE 2462 Clinical Echocardiography II	4
+ DMSO 2351 Doppler Physics	3
	-----
	10

### Fall Semester

DSVT 1103 Introduction to Vascular Technology	1
+ # DMSO 2345 Advanced Sonography Practices	3
+ # DMSO 2663 Medical Sonography Clinical III	6
+ DMSO 2243 Advanced Ultrasound Physics	2
	-----
	12
	-----
<b>TOTALS</b>	<b>72</b>

+ Prerequisites: See Course Descriptions.  
# Capstone course

### Diagnostic Cardiac Sonography

(ECHOCARDIOGRAPHY)

Advanced Technical Certificate

**Admission is limited to graduates of an accredited 2-year patient care based Allied Health program.** This certificate program prepares the student for a career as a diagnostic cardiac sonographer (echocardiographer) through classroom study and supervised clinical experience. Upon completion of the prescribed curriculum, the student is eligible to take examinations for the American Registry of Diagnostic Medical Sonographers (ARDMS) certification in Adult Echocardiography. This program is currently accredited through the Committee on Accreditation of Allied Health Education Programs, 515 North State Street, Chicago, IL 60610; phone (312) 464-4695. **ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE PROGRAM. ENROLLMENT IS LIMITED.**

Students accepted into the program are required to have a physical examination, provide documentation of immunizations, and must verify annual tuberculosis status.

Prerequisites	Credit Hours
+ MATH 1314 College Algebra	3
+ PHYS 1401 General College Physics I OR	4
PHYS 1405 Conceptual Physics I	4
	-----
	7
<b>Fall Semester</b>	
+ DSAE 1100 Introduction to Diagnostic Imaging	1
+ DSAE 1315 Principles of Adult Echocardiography	3
+ DSAE 1203 Introduction to Echocardiography Techniques	2
+ DMSO 1302 Basic Ultrasound Physics	3
	-----
	9
<b>Spring Semester</b>	
+ DSAE 2404 Echocardiographic Evaluation of Pathology I	4
+ DSAE 1561 Clinical Echocardiography I	5
+ DMSO 1342 Intermediate Ultrasound Physics	3
	-----
	12

# Sonography

## Summer Semester

+ DSAE 2337	Echocardiographic Evaluation of Pathology II	3
+ DSAE 2462	Clinical Echocardiography II	4
+ DMSO 2351	Doppler Physics	3
		-----
		10

## Fall Semester

DSVT 1103	Introduction to Vascular Technology	1
+# DMSO 2345	Advanced Sonography Practices	3
+# DSAE 2663	Clinical Echocardiography III	6
+ DMSO 2243	Advanced Ultrasound Physics	2
		-----
		12

**TOTALS** **50**

+ Prerequisites: See Course Descriptions.

# Capstone course

## Diagnostic Medical Sonography

### Associate of Applied Science Degree

This degree plan is designed to prepare individuals with limited medical backgrounds for a career as a diagnostic medical sonographer through classroom study and supervised clinical experience. **Minimum of a Nurse Aid Certification is required.** Upon completion of the prescribed curriculum, the student is eligible to take examinations for the American Registry of Diagnostic Medical Sonographers (ARDMS) certification in Abdominal and OB/GYN specialties. This program is nationally accredited through the Committee on Accreditation of Allied Health Education Programs, 515 North State Street, Chicago, IL 60610; phone (312) 464-4695. **ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE PROGRAM AND ENROLLMENT IS LIMITED.**

Students accepted into the program are required to have a physical examination, provide documentation of immunizations, and verify annual tuberculosis status.

Prerequisites	Credit Hours	
HPRS 1206	Medical Terminology	2
PHIL 2306	Ethics	3
+ MATH 1314	College Algebra	3
BIOL 2401	Anatomy & Physiology I	4
+ BIOL 2402	Anatomy and Physiology II	4
ENGL 1301	English Composition I	3
PSYC 2301	Introduction to Psychology	3
+ PHYS 1401	General College Physics I OR	4
PHYS 1405	Conceptual Physics I	4
		-----

26

## Fall Semester

SPCH 1315	Fundamentals of Public Speaking	3
+ DSAE 1100	Introduction to Diagnostic Imaging	1
+ DMSO 1441	Introduction to Abdominopelvic Sonography	4
+ DMSO 1172	Techniques of Medical Sonography	1
+ DMSO 1302	Basic Ultrasound Physics	3
		-----
		12

## Spring Semester

+ DMSO 2441	Sonography of Abdominopelvic Pathology	4
+ DMSO 1561	Medical Sonography Clinical I	5
+ DMSO 1342	Intermediate Ultrasound Physics	3
		-----
		12

## Summer Semester

+ DMSO 2342	Sonography of High Risk Obstetrics	3
+ DMSO 2462	Medical Sonography Clinical II	4
+ DMSO 2351	Doppler Physics	3
		-----
		10

## Fall Semester

+ DSVT 1103	Introduction to Vascular Technology	1
+# DMSO 2345	Advanced Sonography Practices	3
+# DMSO 2663	Clinical Medical Sonography III	6
+ DMSO 2243	Advanced Ultrasound Physics	2
		-----
		12

**TOTALS** **72**

+ Prerequisites: See Course Descriptions.

# Capstone course

## Diagnostic Medical Sonography

### Advanced Technical Certificate

Admission is limited to graduates of an accredited 2-year patient care based Allied Health program. This certificate program prepares the student for a career as a diagnostic medical sonographer through classroom study and supervised clinical experience. Upon completion of the prescribed curriculum, the student is eligible to take examinations for the American Registry of Diagnostic Medical Sonographers (ARDMS) certification in Abdominal and OB/GYN specialties. This program is nationally accredited through the Committee on Accreditation of Allied Health Education Programs 515 North State Street, Chicago IL, 60610; phone (312)464-4695. **ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE PROGRAM AND ENROLLMENT IS LIMITED.**

Students accepted into the program are required to have a physical examination, provide documentation of immunizations, and must verify annual tuberculosis status.

Prerequisites	Credit Hours
+ MATH 1314 College Algebra	3
+ PHYS 1401 General College Physics I OR PHYS 1405 Conceptual Physics I	4
-----	
	7
<b>Fall Semester</b>	
+ DSAE 1100 Introduction to Diagnostic Imaging	1
+ DMSO 1441 Introduction to Abdominopelvic Sonography	4
+ DMSO 1172 Techniques of Medical Sonography	1
+ DMSO 1302 Basic Ultrasound Physics	3
-----	
	9
<b>Spring Semester</b>	
+ DMSO 2441 Sonography of Abdominopelvic Pathology	4
+ DMSO 1561 Medical Sonography Clinical I	5
+ DMSO 1342 Intermediate Ultrasound Physics	3
-----	
	12
<b>Summer Semester</b>	
+ DMSO 2342 Sonography of High Risk Obstetrics	3
+ DMSO 2462 Medical Sonography Clinical II	4
+ DMSO 2351 Doppler Physics	3
-----	
	10
<b>Fall Semester</b>	
+ DSVT 1103 Introduction to Vascular Technology	1
+# DMSO 2345 Advanced Sonography Practices	3
+# DMSO 2663 Medical Sonography Clinical III	6
+ DMSO 2243 Advanced Ultrasound Physics	2
-----	
	12
-----	
<b>TOTALS</b>	<b>50</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## SPEECH

### Speech

#### Associate of Arts Degree

The Associate of Arts degree provides students with the first two years of Liberal Arts education with an emphasis on Speech.

Semester I	Credit Hours
ENGL 1301 English Composition I	3
HIST 1301 United States History I Foreign Language <sup>1</sup>	3 5
SPCH 1311 Introduction to Speech Communication	3
COSC 1300 Introduction to Computing OR	3
COSC 1301 Personal Computing	3
-----	
	17
<b>Semester II</b>	
+ ENGL 1302 English Composition II	3
HIST 1302 United States History II Foreign Language <sup>1</sup>	3 5
+ SPCH 1315 Fundamentals of Public Speaking OR	3
SPCH 1321 Business and Professional Speaking	3
SPCH 1318 Interpersonal Communication	3
-----	
	17
<b>Semester III</b>	
GOVT 2305 United States Government	3
+ Literature <sup>2</sup>	3
+ Mathematics <sup>3</sup>	3
+ Natural Science <sup>3</sup>	3-4
SPCH 2333 Small Group Communication	3
-----	
	15-16
<b>Semester IV</b>	
GOVT 2306 Texas State and Local Government	3
+ Natural Science <sup>3</sup>	3-4
Visual and Performing Arts <sup>4</sup>	3
Social and Behavioral Science <sup>5</sup>	3
Elective <sup>6</sup>	3
-----	
	15-16
-----	
<b>TOTALS</b>	<b>64-66</b>

+ Prerequisites: See Course Descriptions.

<sup>1</sup> The foreign language hours must be in the same language.

<sup>2</sup> The literature course must be chosen from the following: ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2342.

<sup>3</sup> The Math/Natural Science requirement may be satisfied by any Math/ Natural Science course from the Core Curriculum.

<sup>4</sup> Select from Visual and Performing Arts section of the Core Curriculum Course list.

<sup>5</sup> Select from Other Social and Behavioral Sciences section of the Core Curriculum Course list.

<sup>6</sup> Students are encouraged to take a Speech course or a course that would satisfy the requirements of the Core Curriculum from the Humanities section.

# Surgical Technology

## SURGICAL TECHNOLOGY

### Surgical Technology

#### Associate of Applied Science Degree

The Surgical Technologist is an integral member of the surgical team. The Surgical Technologist works closely with the surgeon, anesthesiologist, and registered nurse to deliver direct patient care before, during, and after surgery. This degree plan combines classroom teaching with supervised clinical experience for the surgical technologist. Emphasis is placed on the proper application of sterile technique and modern technology to patient care in the operating room. The student will receive information in anatomy and physiology, microbiology, pharmacology, surgical pathology, and surgical procedures along with the standard practices involved in surgical technology. Upon completion of the program the student is qualified to take the national certification examination for surgical technologists. **ADMISSION TO THE COLLEGE DOES NOT GUARANTEE ADMISSION TO THE SURGICAL TECHNOLOGY PROGRAM.** A separate application process is required for admission into the Surgical Technology Program. Departmental approval is required to register for any of the Surgical Technology Courses (SRGT). The program is nationally accredited, oversight of which is by the Accreditation Review Committee -Surgical Technology (7108-C S. Alton Way, Englewood, CO 80112; Phone (303) 694-9262) with CAAHEP (35 E. Wacker Drive Suite 1970, Chicago, IL 60601-2208; Phone (312) 553-9355). Students accepted into the program are required to have a physical examination, provide documentation of immunizations, and verify annual tuberculosis status.

#### Prior to acceptance in Surgical Technology Credit Hours

<b>BIOL 2401</b>	Anatomy and Physiology I <sup>1</sup>	4
<b>BIOL 2420</b>	Introduction to Microbiology <sup>1</sup>	4
<b>HPRS 1206</b>	Medical Terminology	2
		10

#### Semester I

+	Mathematics <sup>2</sup>	3
	<b>BIOL 2402</b> Anatomy and Physiology II <sup>1</sup>	4
	<b>PSYC 2301</b> Introduction to Psychology	3
	<b>ENGL 1301</b> English Composition I	3
+	<b>HPRS 2300</b> Pharmacology for Health Professions	3
		16

#### Semester II

	<b>SPCH 1318</b> Interpersonal Communication	3
	<b>PHIL 2303</b> Logic OR	3
	<b>PHIL 2306</b> Ethics OR	
+	Humanities	
	Unrestricted Elective	3
		9

#### Semester III

+	<b>SRGT 1405</b> Introduction to Surgical Technology	4
+	<b>SRGT 1409</b> Fundamentals of Aseptic Technique	4
+	<b>SRGT 1160</b> Beginning Clinical	1
		9

#### Semester IV

+	<b>SRGT 1441</b> Surgical Procedures I	4
+	<b>SRGT 1660</b> Intermediate Clinical	6
	<b>SRGT 1391</b> Special Topics in Surgical Technology–Orthopedic Specialty OR	3

<b>SRGT 1391</b>	Special Topics in Surgical Technology–Orthopedic Specialty	
		13

#### Semester V

+# <b>SRGT 1442</b>	Surgical Procedures II	4
+ <b>SRGT 2660</b>	Advanced Clinical	6
		10

#### TOTALS

**67**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> These courses must be current within the past five years.

<sup>2</sup> Select from the following courses: MATH 1332, MATH 1342, MATH 1314.

## Surgical Technology

### Certificate

A student may (pending approval by the Department of Surgical Technology) be awarded a certificate in Surgical Technology at the completion of the following courses:

#### Prior to acceptance in Surgical Technology Credit Hours

<b>BIOL 2401</b>	Anatomy and Physiology I <sup>1</sup>	4
<b>BIOL 2420</b>	Introduction to Microbiology	4
<b>HPRS 1206</b>	Medical Terminology <sup>1</sup>	2
		10

#### Semester I

+	Mathematics <sup>2</sup>	3
		3

#### Semester II

	<b>BIOL 2402</b> Anatomy and Physiology II <sup>1</sup>	4
+	<b>HPRS 2300</b> Pharmacology for Health Professions	3
		7

#### Semester III

+	<b>SRGT 1405</b> Introduction to Surgical Technology	4
+	<b>SRGT 1409</b> Fundamentals of Aseptic Technique	4
+	<b>SRGT 1160</b> Beginning Clinical	1
		9

#### Semester IV

+	<b>SRGT 1441</b> Surgical Procedures I	4
+	<b>SRGT 1660</b> Intermediate Clinical	6
	<b>SRGT 1391</b> Special Topics in Surgical Technology–Orthopedic Specialty OR	3
	<b>SRGT 1391</b> Special Topics in Surgical Technology–Orthopedic Specialty	
		13

#### Semester V

+# <b>SRGT 1442</b>	Surgical Procedures II	4
+ <b>SRGT 2660</b>	Advanced Clinical	6
		10

#### TOTALS

**52**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> These courses must be current within the past five years.

<sup>2</sup> Select from the following courses: MATH 1342, MATH 1332, MATH 1314.

# Technical Communications

## TECHNICAL COMMUNICATIONS

### Technical Communications

#### Associate of Applied Science Degree

This program is designed to give students the writing and editing skills and the technical background necessary for careers in technical communication. The range of computer and technical electives permits students to coordinate their communications skills with training in a variety of technical areas.

<b>Semester I</b>		<b>Credit Hours</b>
<b>ENGL 1301</b>	English Composition I	3
<b>SPCH 1315</b>	Fundamentals of Public Speaking	3
	Computer Course <sup>1</sup>	3
	Elective <sup>2</sup>	4
		13
<b>Semester II</b>		
+ ENGL 2311	Technical & Business Writing	3
+ POFT 1329	Keyboarding and Document Formatting–MS Word™ I	3
	Computer Elective <sup>3</sup>	3-4
	Printing <sup>4</sup>	4
+	Mathematics <sup>5</sup>	3
		16-17
<b>Semester III</b>		
+ ETWR 1372	Grammar/Style	3
+ ETWR 1391	Special Topics in English Technical and Business Writing	3
+ ETWR 2372	Print Documentation	3
+ ETWR 2371	Editing and Layout–Technical Editing	3
+ BUSI 1304	Business Report Writing and Correspondence	3
	Restricted Elective <sup>2</sup>	3-4
		18-19
<b>Semester IV</b>		
+ ETWR 2373	Online Documentation	3
<b>ECON 2302</b>	Principles of Microeconomics OR Social and Behavioral Science	3
+	Humanities <sup>6</sup>	3
	Restricted Elective <sup>2</sup>	9-12
#	Capstone Portfolio Examination <sup>7</sup>	
		18-21
<b>TOTALS</b>		<b>65-70</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from the following courses: COSC 1300, COSC 1315, ITSE 1331.

<sup>2</sup> Students must take all coursework in the minor plan from one of the following: Computer Information Systems, Engineering Design Graphics, Electronic Technology, Quality Assurance Technology or another scientific or technical subject area subject to program approval.

<sup>3</sup> Must be taken from ITSE 1331, ITSW 1301, COSC 1320, ITSW 1327, ITSE 1344, ITSW 1372, ITSE 2431, COSC 2415, GRPH 1432, or GRPH 1454.

<sup>4</sup> Must be taken from GRPH 1422 or DFTG 1405.

<sup>5</sup> Select from MATH 1332, MATH 1314, MATH 1324 or higher.

<sup>6</sup> Select from ENGL 2333, ENGL 2342, ENGL 2343, HUMA 1301, or HUMA 1315.

<sup>7</sup> The graduate's Capstone Portfolio Examination Project must be approved at the beginning of the semester and reviewed and approved at least one week before the end of the semester by the Program Coordinator or a designated faculty member.

## Technical Communications

### Certificate

The certificate program is designed to give students the writing, editing, and computer language skills necessary for careers in the technical communication profession.

<b>Semester I</b>		<b>Credit Hours</b>
COSC 1300	Introduction to Computing	3
<b>ENGL 1301</b>	English Composition I	3
	Computer Elective <sup>1</sup>	3-4
+ POFT 1329	Keyboarding and Document Formatting–MS Word™ I	3
		12-13
<b>Semester II</b>		
+ BUSI 1304	Business Report Writing and Correspondence	3
	Computer Elective <sup>1</sup>	3-4
	Printing Elective <sup>2</sup>	4
+ ETWR 1372	Grammar/Style	3
+ ENGL 2311	Technical & Business Writing	3
+ ETWR 2373	Online Documentation	3
+ ETWR 2371	Editing and Layout–Technical Editing	3
#	Capstone Portfolio Examination <sup>3</sup>	
		22-23
<b>TOTALS</b>		<b>34-36</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from ITSE 1331, COSC 1315, ITSW 1301, COSC 1320, ITSE 1344, GRPH 1425, or GRPH 1457.

<sup>2</sup> Select from GRPH 1422 or DFTG 1405.

<sup>3</sup> The graduate's Capstone Portfolio Examination project must be approved at the beginning of the semester and reviewed and approved at least one week before the end of the semester by the Program Coordinator or a designated faculty member.

# Travel and Tourism

## TRAVEL AND TOURISM

### Travel and Tourism

#### Associate of Applied Science Degree

Semester I	Credit Hours
HAMG 1321 Introduction to Hospitality Industry	3
IFWA 1217 Food Production and Planning (Math)	2
FDNS 1301 Introduction to Foods	3
IFWA 1213 Sanitation and Safety	2
<b>ENGL 1301</b> English Composition I	3
+ <b>MATH 1332</b> College Mathematics	3
	-----
	16
<b>Semester II</b>	
HAMG 1313 Front Office Procedures	3
HAMG 2332 Hospitality Financial Management	3
RSTO 1304 Dining Room Service	3
HAMG 1219 Computers in Hospitality	2
TRVM 1300 Introduction to Travel and Tourism	3
Travel and Tourism Elective <sup>1</sup>	3
	-----
	17
<b>Semester III</b>	
+ CULA 1341 American Regional Cuisine	3
Oral Communication <sup>2</sup>	3
Social and Behavioral Science <sup>3</sup>	3
HAMG 1324 Hospitality Human Resources	3
Management	3
Restricted Elective <sup>1</sup>	3
	-----
	15
<b>Semester IV</b>	
+# HAMG 2389 Internship–Hospitality Administration	3
and Management	3
HAMG 2305 Hospitality Management and	3
Leadership	3
Restricted Elective <sup>1</sup>	3
Restricted Elective <sup>1</sup>	3
+ Humanities <sup>3</sup>	3
	-----
	15
	-----
<b>TOTALS</b>	<b>63</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Restricted Electives may be chosen from the restricted elective list from the areas of Hospitality Management, Culinary Arts, Travel & Tourism or Meeting Planning. See Program Advisor for the listing.

<sup>2</sup> Select from Oral Communications section of the General Education Course list.

<sup>3</sup> This includes a Visual and Performing Arts course, an additional Humanities course, and an additional Social and Behavioral Science course. Consult the catalog core curriculum for a list of acceptable courses.

## Travel and Tourism

### Certificate

The Travel and Tourism program is designed to give the student an overview of the travel industry, and provides the student with the necessary information to obtain an entry-level position in the travel industry. The student works in a professionally staffed atmosphere with modern equipment.

Semester I	Credit Hours
TRVM 1300 Introduction to Travel and Tourism	3
TRVM 1306 Travel Automation I	3
TRVM 1345 Travel and Tourism Sales and	3
Marketing Techniques	3
TRVM 1391 Special Topics in Travel & Tourism–	3
Internet Travel Specialist <sup>1</sup>	3
	-----
	12
<b>Semester II</b>	
+ TRVM 2335 Travel Automation II	3
TRVM 2305 Travel Industry Management	3
+# TRVM 2345 Advanced Topics in Tourism	3
TRVM 1391 Special Topics in Travel & Tourism–	3
Destinations <sup>1</sup>	3
	-----
	12
	-----
<b>TOTALS</b>	<b>24</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Special Topics courses may be repeated as subjects change.

# Visual Communication Design

## VISUAL COMMUNICATION DESIGN

### 2D Animation Specialization

#### Associate of Applied Science Degree

2D Animation degree focuses on various areas of traditional and computer animation offering students a comprehensive course of study and practicum in the field of animation. The objective of this degree is to prepare students for qualification in producing completed animation productions and preparing students for intermediate entry into the industry.

Semester I	Credit Hours
+ IMED 1211 Storyboard	2
ARTC 1305 Basic Graphic Design	3
ARTC 1409 Basic Illustration	4
+ ARTC 1391 Special Topics in Graphic Design, Commercial Art and Illustration: Color Theory for Design	3
-----	
	12
Semester II	
Humanities <sup>3</sup>	3
+ ARTC 1401 Basic Animation	4
Mathematics <sup>1</sup>	3
ARTC 1402 Digital Imaging I	4
-----	
	14
Semester III	
+ ARTC 1491 Special Topics in Graphic Design, Commercial Art and Illustration: Advanced Animation	4
Oral Communication <sup>2</sup>	3
-----	
	7
Semester IV	
+ IMED 1451 Digital Video	4
+ ARTV 1401 Animation 2-D	4
ARTC 2311 History of Communication Graphics	3
+ IMED 1491 Special Topics in Educational/Instructional Media Technology: Typographic Design for Multimedia	4
-----	
	15
Semester V	
Social and Behavioral Science <sup>4</sup>	3
+ ARTV 1471 Advanced Animation 2-D	4
+ IMED 2441 Advanced Digital Video	4
ENGL 1301 English Composition I	3
-----	
	14
Semester VI	
+# ARTV 1491 Special Topics in Visual and Performing Arts: Portfolio Development for Animation	4
Restricted Elective <sup>5</sup>	4
-----	
	8
-----	
<b>TOTALS</b>	<b>70</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select any Math course from Computation Skills section of the General Education Course List.

<sup>2</sup> Select any Speech course from Communications section of the General Education Course List.

<sup>3</sup> Must be selected from the following Humanities and Fine Art courses: ARTS 1301, ARTS 1303, ARTS 1304, HUMA 1301, HUMA 1315.

<sup>4</sup> Select from the Social Behavioral Science section of the General Education Course List.

<sup>5</sup> Must be selected from the following Visual Communication Design electives: ARTC 1413, ARTC 1445, ARTC 1441, IMED 1441, IMED 1405, IMED 1416, IMED 1491, IMED 2388, RTF 1731, RTF 1732, COMM 2325, MUSC 1331, MUSC 1327, COSC 1301.

## 2D Animation

### Certificate

2D Animation certificate will prepare students for intermediate entry into the field of traditional and 2D computer animation. The course of study will introduce students to various aspects of the field.

Semester I	Credit Hours
+ IMED 1211 Storyboard	2
ARTC 1409 Basic Illustration	4
+ IMED 1451 Digital Video	4
ARTC 1305 Basic Graphic Design	3
-----	
	13
Semester II	
+ ARTC 1401 Basic Animation	4
ARTC 1474 Designing for Animation	4
ARTC 1402 Digital Imaging I	4
ARTC 1391 Special Topics in Color Theory	3
-----	
	15
Semester III	
+ ARTV 1401 Animation 2-D	4
+ ARTC 1491 Special Topics in Graphic Design, Commercial Art and Illustration: Advanced Animation	4
-----	
	8
Semester IV	
+ ARTV 1471 Advanced Animation 2-D	4
+ IMED 2441 Advanced Digital Video	4
-----	
	8
Semester V	
+# ARTV 1491 Special Topics in Visual and Performing Arts: Portfolio Development for Animation	4
Restricted Elective <sup>1</sup>	4
-----	
	8
-----	
<b>TOTALS</b>	<b>52</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Must be selected from the following Visual Communication Design electives: ARTC 1413, ARTC 1445, ARTC 1441, IMED 1441, IMED 1405, IMED 2405, IMED 1416, IMED 1491, IMED 2388, RTF 1731, RTF 1732, COMM 2325, MUSC 1331, MUSC 1327, COSC 1301.

# Visual Communication Design

## 3D Animation Specialization

### Associate of Applied Science Degree

A specialized course of study focusing on 3D visual art production for the Film, Broadcast, and Computer Game Development industries. Courses provide a balance of technical skills and aesthetic development, culminating in a portfolio building project targeted to the student's chosen career path.

Semester I	Credit Hours
ARTC 1409 Basic Illustration	4
ARTC 1305 Basic Graphic Design	3
ARTC 1402 Digital Imaging I	4
ARTC 1445 3-D Modeling and Rendering	4
	-----
	15
<b>Semester II</b>	
+ ARTC 1401 Basic Animation	4
+ IMED 1211 Storyboard	2
+ ARTC 2445 Advanced 3D Modeling and Rendering	4
Math <sup>1</sup>	3
	-----
	13
<b>Semester III</b>	
+ ARTC 1441 3-D Animation I	4
Oral Communication <sup>2</sup>	3
ARTC 1391 Special Topics in Color Theory	3
	-----
	10
<b>Semester IV</b>	
IMED 1491 Special Topics in Type Design for Multimedia	4
+ ARTC 1471 Design for 3D	4
Restricted Elective <sup>5</sup>	4
ENGL 1301 English Composition I	3
	-----
	15
<b>Semester V</b>	
+ ARTC 1473 3D Project	4
Humanities <sup>3</sup>	3
Social and Behavioral Sciences <sup>4</sup>	3
ARTC 2311 History of Communication Graphics	3
	-----
	13
<b>Semester VI</b>	
+# ARTV 1491 Special Topics in Visual and Performing Arts: Portfolio Development for Animation	4
	-----
	4
	-----
<b>TOTALS</b>	<b>70</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select any Math course from Computation Skills section of the General Education Course List.

<sup>2</sup> Select any Speech course from Communications section of the General Education Course List.

<sup>3</sup> Select Humanities Courses from ARTS 1301, ARTS 1303, ARTS 1304, HUMA 1301, HUMA 1315.

<sup>4</sup> Select from Social Behavioral Science section of the General Education Course List.

<sup>5</sup> Must be selected from the following Visual Communication Design electives: ARTC 1391, IMED 1491, ARTC 1491, ARTC 1421, ARTS 2323, ARTV 1401, IMED 1451.

## 3D Animation

### Certificate

A specialized course of study focusing on 3D visual art production for the film, broadcast, and computer game development industries. Courses provide a balance of technical skills and aesthetic development, culminating in a portfolio building project targeted to the student's chosen career path.

Semester I	Credit Hours
ARTC 1409 Basic Illustration	4
ARTC 1305 Basic Graphic Design	3
ARTC 1445 3-D Modeling and Rendering	4
ARTC 1391 Special Topics in Color Theory	3
	-----
	14
<b>Semester II</b>	
+ ARTC 1401 Basic Animation	4
+ IMED 1211 Storyboard	2
+ ARTC 2445 Advanced 3D Modeling and Rendering	4
ARTC 1402 Digital Imaging I	4
	-----
	14
<b>Semester III</b>	
+ ARTC 1441 3-D Animation I	4
	-----
	4
<b>Semester IV</b>	
+ ARTC 2441 3-D Animation II	4
Restricted Elective <sup>1</sup>	4
+ ARTC 1471 Design for 3D	4
	-----
	12
<b>Semester V</b>	
+# ARTC 1473 3D Project	4
	-----
	4
	-----
<b>TOTALS</b>	<b>48</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Must be selected from the following Visual Communication Design electives: IMED 1491, ARTC 1491, ARTC 1421, ARTS 2323, ARTV 1401, IMED 1451.

# Visual Communication Design

## Graphic Design Specialization

### Associate of Applied Science Degree

This specialized course of study is structured to establish the principals of graphic design and art direction. Courses in the program will offer students the opportunity to develop a real world skill set through the acquisition of conceptual thinking skills combined with practical technical skills using state of the art software and hardware. The result of student's course work will consist of a conceptual body of work that will culminate into a professional portfolio.

<b>Semester I</b>		<b>Credit Hours</b>
ARTC 1305	Basic Graphic Design	3
ARTC 1413	Digital Publishing I	4
ARTC 1402	Digital Imaging I	4
+ ARTC 1391	Special Topics in Graphic Design, Commercial Art and Illustration: Color Theory for Design	3
		-----
		14
<b>Semester II</b>		
ARTC 1409	Basic Illustration	4
+ ARTC 2413	Digital Publishing II	4
+ ARTC 2417	Typographic Design	4
+ ARTC 1449	Art Direction I	4
		-----
		16
<b>Semester III</b>		
+ ARTC 1417	Design Communication I	4
+ ARTC 1421	Illustration Techniques	4
ENGL 1301	English Composition I	3
		-----
		11
<b>Semester IV</b>		
ARTC 2311	History of Communication Graphics	3
+ ARTC 2447	Design Communication II	4
+ ARTC 2431	Illustration Concepts	4
+ _____	Humanities/Fine Arts <sup>3</sup>	3
+ _____	Social and Behavioral Science <sup>4</sup>	3
		-----
		17
<b>Semester V</b>		
+# ARTC 2435	Portfolio Development for Graphic Design	4
	Oral Communication <sup>2</sup>	3
+ _____	Mathematics <sup>1</sup>	3
+ _____	Restricted Elective <sup>5</sup>	4
		-----
		14
		-----
<b>TOTALS</b>		<b>72</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select any Math course from Computation Skills section of the General Education Course List.

<sup>2</sup> Select any Speech course from Communications section of the General Education Course List.

<sup>3</sup> Select Humanities Courses from ARTS 1301, ARTS 1303, ARTS 1304, HUMA 1301, HUMA 1315.

<sup>4</sup> Select from Social Behavioral Science section of the General Education Course List.

<sup>5</sup> Must be selected from the following Visual Communication Design electives: ARTC 1401, ARTC 1445, ARTC 1441, ARTC 1491, ARTC 2333, ARTV 1401 IMED 1211, IMED 1401, IMED 1416, IMED 1441, IMED 1451, IMED 1405, IMED 1491, IMED 2441, IMED 2416, IMED 2388, GRPH 1459, GRPH 1457, GRPH 1409, GRPH 2436, RTF 1731, RTF 1732, COMM 2325, MUSC 1331, MUSC 1327, COSC 1301.

## Graphic Design

### Certificate

This focused course of study is structured to establish the principals of graphic design and art direction. The result of student course work will consist of a conceptual body of work that will culminate into a professional portfolio.

<b>Semester I</b>		<b>Credit Hours</b>
ARTC 1305	Basic Graphic Design	3
ARTC 1413	Digital Publishing I	4
ARTC 1402	Digital Imaging I	4
+ ARTC 1391	Special Topics in Graphic Design, Commercial Art and Illustration: Color Theory for Design	3
		-----
		14
<b>Semester II</b>		
ARTC 1409	Basic Illustration	4
+ ARTC 2413	Digital Publishing II	4
+ ARTC 2417	Typographic Design	4
+ ARTC 1449	Art Direction I	4
		-----
		16
<b>Semester III</b>		
+ ARTC 1417	Design Communication I	4
+ ARTC 1421	Illustration Techniques	4
		-----
		8
<b>Semester IV</b>		
+ ARTC 2447	Design Communication II	4
+ ARTC 2431	Illustration Concepts	4
		-----
		8
<b>Semester V</b>		
+# ARTC 2435	Portfolio Development for Graphic Design	4
	Restricted Elective <sup>1</sup>	4
		-----
		8
<b>TOTALS</b>		<b>54</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Must be selected from the following Visual Communication Design electives: ARTC 1401, ARTC 1445, ARTC 1441, ARTC 2333, ARTC 2441, ARTC 2445, ARTV 1401 IMED 1211, IMED 1401, IMED 1441, IMED 1451, IMED 1405, IMED 1491, IMED 2441, IMED 2388, GRPH 1459, GRPH 1457, GRPH 1409, GRPH 2436, RTF 1731, RTF 1732, COMM 2325, MUSC 1331, MUSC 1327, COSC 1301.

# Visual Communication Design

## Interactive Design Specialization

### Associate of Applied Science Degree

This new program is structured to establish the foundation principals for the design, development, and implementation of interactive design projects, as well as, advanced techniques. Students will be instructed in methods that will enable them to identify, design, and develop intermediate to advanced elements of the interactive design development process. Course offered in the program will offer students the opportunity to develop a real world skill set through the acquisition of practical technical skills (computer skills) and critical thinking skills (a clear understanding of project requirements, i.e. problem solving skills). This is a five semester plan for acquiring this degree. Any deviation from or substitutions require departmental approval. Please see our Level II Certificate for Interactive.

Semester I	Credit Hours
Humanities <sup>3</sup>	3
ARTC 1409 Basic Illustration	4
+ ARTC 1391 Special Topics in Graphic Design, Commercial Art and Illustration: Color Theory for Design	3
ARTC 1305 Basic Graphic Design	3
ARTC 1402 Digital Imaging I	4
	-----
	17
<b>Semester II</b>	
Mathematics <sup>1</sup>	3
IMED 1445 Interactive Multimedia I	4
+ IMED 1441 2-D Interface Design	4
+ IMED 1491 Special Topics in Educational/ Instructional Media Technology: Typographic Design for Multimedia	4
IMED 1211 Story Board	2
	-----
	17
<b>Semester III</b>	
Oral Communications <sup>2</sup>	3
+ IMED 1416 Web Page Design I	4
ARTC 2311 History of Communication Graphics	3
	-----
	10
<b>Semester IV</b>	
ENGL 1301 English Composition I	3
+ IMED 2445 Interactive Multimedia II	4
Restricted Elective <sup>5</sup>	4
+ IMED 2415 Web Page Design II	4
	-----
	15
<b>Semester V</b>	
Social and Behavioral Science <sup>4</sup>	3
+ IMED 2413 Project Analysis and Design	4
+# IMED 2411 Portfolio Development	4
	-----
	11
	-----
<b>TOTALS</b>	<b>70</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select any Math course from Computation Skills section of the General Education Course List.

<sup>2</sup> Select any Speech course from Communications section of the General Education Course List.

<sup>3</sup> Must be selected from the following Humanities and Fine Art courses: ARTS 1301, ARTS 1303, ARTS 1304, HUMA 1301, HUMA 1315.

<sup>4</sup> Select from Social Behavioral Science section of the General Education Course List.

<sup>5</sup> Must be selected from the following Visual Communication Design electives: ARTC 1401, ARTC 1413, ARTC 1445, ARTC 1441, ARTC 1491, ARTV 1401 IMED 1211, IMED 1401, IMED 1405, IMED 1451, IMED 1491, IMED 2441, IMED 2405, IMED 2388, RTF 1731, RTF 1732, COMM 2325, MUSC 1331, MUSC 1327, COSC 1301.

## Interactive Design

### Certificate

This certificate program is structured to establish the foundation principals for the design, development, and implementation of interactive design projects, as well as, advanced techniques. Students will be instructed in methods that will enable them to identify, design, and develop intermediate to advanced elements of the interactive design development process. Course offered in the program will offer students the opportunity to develop a real world skill set through the acquisition of practical technical skills (computer skills) and critical thinking skills (a clear understanding of project requirements, i.e. problem solving skills). This is a five semester plan for acquiring this degree. Any deviation from or substitutions require departmental approval. Prerequisites may be waived with departmental approval. Please see our Associate of Applied Science - Interactive Design Specialization.

Semester I	Credit Hours
+ ARTC 1391 Special Topics in Graphic Design, Commercial Art and Illustration: Color Theory for Design	3
ARTC 1305 Basic Graphic Design	3
ARTC 1402 Digital Imaging I	4
ARTC 1409 Basic Illustration	4
	-----
	14
<b>Semester II</b>	
+ IMED 1441 2-D Interface Design	4
IMED 1445 Interactive Multimedia I	4
+ IMED 1416 Web Page Design I	4
IMED 1211 Story Board	2
	-----
	14
<b>Semester III</b>	
+ IMED 2445 Interactive Multimedia II	4
+ IMED 2415 Web Page Design II	4
+ IMED 1491 Special Topics in Educational/ Instructional Media Technology: Typographic Design for Multimedia	4
	-----
	12

# Welding Technology

<b>Semester IV</b>		
+ IMED 1405	Multimedia Courseware Development I	4
	Restricted Elective <sup>1</sup>	4
		-----
		8

<b>Semester V</b>		
+ # IMED 2411	Portfolio Development	4
		-----
		4

**TOTALS** **52**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Must be selected from the following Visual Communication Design electives: ARTC 1401, ARTC 1413, ARTC 1445, ARTC 1441, ARTV 1401, IMED 1401, IMED 1451, IMED 1491, IMED 2413, IMED 2405, IMED 2388, RTF 1731, RTF 1732, COMM 2325, MUSC 1331, MUSC 1327, COSC 1301

## Online Web

### Certificate

This online certificate program is structured in a way that allows the non-traditional student the opportunity to learn practical foundation through advanced level interactive design and development techniques and principles. Students will develop a skill set that ranges from design to development, and on through project management. Students who elect to pursue this program must also be focused, motivated, and equipped to work independently. Students will work primarily off campus, however, a minimum number of required lab hours must be satisfied in an on campus lab.

<b>Semester I</b>			<b>Credit Hours</b>
ARTC 1402	Digital Imaging I		4
IMED 1445	Interactive Multimedia I		4
			-----
			8

<b>Semester II</b>			
+ IMED 1441	2-D Interface Design		4
+ IMED 1416	Web Page Design I		4
+ IMED 1491	Special Topics in Educational/ Instructional Media Technology: Typographic Design for Multimedia		4
			-----
			12

<b>Semester III</b>			
+ IMED 2415	Web Page Design II		4
+ IMED 1405	Multimedia Courseware Development I		4
			-----
			8

<b>Semester IV</b>			
+ IMED 2405	Multimedia Courseware Development II		4
			-----
			4

<b>Semester V</b>			
+ # IMED 2413	Project Analysis and Design		4
			-----
			4

**TOTALS** **36**

+ Prerequisites: See Course Descriptions.

# Capstone course

## WELDING TECHNOLOGY

### Code Welding

#### Associate of Applied Science Degree

This option is for the student desiring a production-based degree, and offers a synthesis of manipulative skills and technical knowledge. Its versatility allows the graduate to pursue a career as a code welder, or to work in supervision by utilizing technical competence acquired from academic course work.

<b>Semester I</b>		<b>Credit Hours</b>
WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)	4
WLDG 1425	Introduction to Oxy-Fuel Welding and Cutting	4
+ WLDG 1413	Introduction to Blueprint Reading for Welders	4
+ MATH 1333	Mathematics for Measurement	3
COSC 1301	Personal Computing	3
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		18

<b>Semester II</b>		
+ WLDG 1457	Intermediate Shielded Metal Arc Welding (SMAW)	4
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
+ WLDG 1435	Introduction to Pipe Welding-- API 1104	4
ENGL 1301	English Composition I	3
+ Humanities/Fine Arts <sup>1</sup>		3
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		18

<b>Semester III</b>		
+ WLDG 2406	Intermediate Pipe Welding--ASME Section IX	4
+ WLDG 1453	Intermediate Layout and Fabrication	4
+ WLDG 2450	Orbital Tube Welding	4
SPCH 1315	Fundamentals of Public Speaking	3
HIST 1301	United States History I	3
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		18

<b>Semester IV</b>		
+ # WLDG 1427	Welding Codes--Certification	4
WLDG 1437	Introduction to Metallurgy	4
	Restricted Elective <sup>2</sup>	4
	Restricted Elective <sup>2</sup>	4
		-----
		16

**TOTALS** **70**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Select from Humanities/Fine Arts section of the General Education Course list.

<sup>2</sup> Departmental approval required.

# Welding Technology

## Code Welding-US Navy/ Tech Prep

### Associate of Applied Science Degree Tech Prep

This welding degree has been designed to provide an avenue for United States Navy enlisted personnel to complete an Associate of Applied Science degree by building on the curricula of Navy training schools. Students completing this program will be recognized as a certified welder and awarded the Navy rating of hull technician or steelworker.

Semester I	Credit Hours
WLDG 1428 Introduction to Shielded Metal Arc Welding (SMAW) <sup>1</sup>	4
+ WLDG 1413 Introduction to Blueprint Reading for Welders	4
WLDG 1425 Introduction to Oxy-Fuel Welding and Cutting <sup>2</sup>	4
+ MATH 1333 Mathematics for Measurement	3
COSC 1301 Personal Computing <sup>1</sup>	3
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	18
<b>Semester II</b>	
+ WLDG 1457 Intermediate Shielded Metal Arc Welding (SMAW)	4
+ WLDG 1435 Introduction to Pipe Welding--API 1104	4
WLDG 1434 Introduction to Gas Tungsten Arc (GTAW) Welding	4
ENGL 1301 English Composition I Humanities/Fine Arts	3
	3
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	18
<b>Semester III</b>	
+ WLDG 1453 Intermediate Layout and Fabrication	4
+ WLDG 2406 Intermediate Pipe Welding--ASME Section IX	4
+ WLDG 2450 Orbital Tube Welding	4
SPCH 1315 Fundamentals of Public Speaking	3
HIST 1301 United States History I	3
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	18
<b>Semester IV</b>	
+# WLDG 1427 Welding Codes--Certification <sup>2</sup>	4
WLDG 1437 Introduction to Metallurgy	4
WLDG 1417 Introduction to Layout and Fabrication <sup>1</sup>	4
+ WLDG 2435 Advanced Layout and Fabrication	4
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	16
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<b>TOTALS</b>	<b>70</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Tech-Prep Courses.

<sup>2</sup> U.S. Navy ACE Recommended Credit.

## Plate Welding

### Certificate

This certificate provides training and shop experience in welding and fabricating plate. It prepares the student for immediate, entry-level employment with minimum training. All courses may be applied towards the Associate of Applied Science in Welding Technology with a specialization in Code Welding.

Semester I	Credit Hours
WLDG 1428 Introduction to Shielded Metal Arc Welding (SMAW)	4
+ WLDG 1413 Introduction to Blueprint Reading for Welders	4
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	8
<b>Semester II</b>	
+ WLDG 1457 Intermediate Shielded Metal Arc Welding (SMAW)	4
+# WLDG 1453 Intermediate Layout and Fabrication	4
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	8
	-----
<b>TOTALS</b>	<b>16</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Pipe Welding

### Certificate

This certificate builds upon the Plate Welding Certificate by providing additional training in welding piping and tubular products. It prepares the student to enter the workforce as a combination welder certified to weld pipe and plate. All courses may be applied towards the Associate of Applied Science in Welding Technology with a specialization in Code Welding.

Semester I	Credit Hours
+ WLDG 1435 Introduction to Pipe Welding--API 1104	4
WLDG 1417 Introduction to Layout and Fabrication	4
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	8
<b>Semester II</b>	
+ WLDG 2406 Intermediate Pipe Welding--ASME Section IX	4
+# WLDG 1427 Welding Codes--Certification	4
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	8
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<b>TOTALS</b>	<b>16</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

# Welding Technology

## Ultrahigh Purity Piping

### Certificate

The Certificate in Ultrahigh Purity Piping provides the student with the immediate, entry-level skills necessary for employment in industries using critical and close-tolerance piping, including semiconductor, biomedical and beverage applications. All courses can be applied towards the Associate of Applied Science degree in Welding Technology with a specialization in Code Welding.

Semester I		Credit Hours
WLDG 1407	Introduction to Welding Using Multiple Processes	4
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
		-----
		8
Semester II		
+ WLDG 1413	Introduction to Blueprint Reading for Welders	4
+# WLDG 2450	Orbital Tube Welding	4
		-----
		8
		-----
<b>TOTALS</b>		<b>16</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Inspection

### Certificate

This certificate is for students with advanced welding skills, and prepares the student for the challenging and diverse field of welding inspection. Graduates who are qualified can take the AWS QC-1 national Certified Welding Inspector examination administered by the American Welding Society. All of the courses can be applied towards the Associate of Applied Science degree in Welding Technology with a specialization in Code Welding.

Semester I		Credit Hours
+ WLDG 1427	Welding Codes–Certification	4
NDTE 1405	Introduction to Ultrasonic Testing	4
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		8
Semester II		
+ NDTE 1454	Intermediate Ultrasonics	4
+# NDTE 2411	Preparation for Welding Inspection	4
		-----
		8
		-----
<b>TOTALS</b>		<b>16</b>

+ Prerequisites: See Course Descriptions.

# Capstone course

## Inert Gas Welding

### Marketable Skills Award

This sequence of courses introduces the student to the technical aspects of Inert Gas Welding. It provides the student with entry-level skills for the close-tolerance welding required in the sheet-metal, piping, and related industries. All courses can be applied to the Associate of Applied Science degree in Welding Technology with a specialization in Code Welding.

Semester I		Credit Hours
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
+ WLDG 1413	Introduction to Blueprint Reading for Welders	4
+ WLDG 2451	Advanced Gas Tungsten Arc Welding	4
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		12
		-----
<b>TOTALS</b>		<b>12</b>

+ Prerequisites: See Course Descriptions.

## Art Metals

### Associate of Applied Science Degree

With this degree, the student will receive traditional training in the arts, as well as experience and theory in welding technology and industrial applications. An additional feature of this interdisciplinary degree is the opportunity for the artist to achieve certification as a welder in order to gain access to an established employment market and a practical means of livelihood.

Semester I		Credit Hours
WLDG 1405	Art Metals	4
ARTS 1316	Drawing I	3
WLDG 1407	Introduction to Welding Using Multiple Processes	4
<b>ARTS 1303</b>	Art History I	3
<b>ENGL 1301</b>	English Composition I	3
		-----
		17
Semester II		
WLDG 1442	Metal Sculpture	4
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
+ WLDG 1413	Introduction to Blueprint Reading for Welders	4
COSC 1301	Personal Computing	3
+ WLDG 1491	Special Topics in Welder/Welding Technologist	4
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		19

# Welding Technology

<b>Semester III</b>		
WLDG 2433	Metalsmithing	4
+ ARTS 2323	Life Drawing I	3
+ MATH 1333	Mathematics for Measurement	3
WLDG 1437	Introduction to Metallurgy	4
SPCH 1311	Introduction to Speech Communication	3

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17

<b>Semester IV</b>		
+ WLDG 2440	Advanced Art Metal (Studio Problems)	4
+ # WLDG 1427	Welding Codes–Certification	4
	Restricted Elective <sup>1</sup>	4
ARTS 1304	Art History II	3
ANTH 2301	Physical Anthropology	3

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18

**TOTALS** **71**

+ Prerequisites: See Course Descriptions.

# Capstone course

<sup>1</sup> Departmental approval required.

## Art Metals

### Certificate

This certificate provides the student who is interested in the technical applications of art and design with immediate, entry-level skills for employment in the field of art metals. All courses may be applied towards the Associate of Applied Science in Welding Technology with a specialization in Art Metals.

<b>Semester I</b>		<b>Credit Hours</b>
WLDG 1405	Art Metals	4
WLDG 1407	Introduction to Welding Using Multiple Processes	4

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8

<b>Semester II</b>		
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
# WLDG 1442	Metal Sculpture	4

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8

**TOTALS** **16**

# Capstone course

## Metal Sculpture

### Certificate

This program builds upon the Art Metals Certificate. It offers additional training in the arts, as well as the applied-skills welding courses necessary to obtain employment as an art metals technician. All courses may be applied towards the Associate of Applied Science in Welding Technology with a specialization in Art Metals.

<b>Semester I</b>		<b>Credit Hours</b>
WLDG 1405	Art Metals	4
WLDG 1407	Introduction to Welding Using Multiple Processes	4
WLDG 2433	Metalsmithing	4
ARTS 1316	Drawing I	3
+ WLDG 1491	Special Topics in Welder/Welding Technologist	4

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19

<b>Semester II</b>		
WLDG 1442	Metal Sculpture	4
+ # WLDG 2440	Advanced Art Metal (Studio Problems)	4
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
+ ARTS 2323	Life Drawing I	3

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15

**TOTALS** **34**

+ Prerequisites: See Course Descriptions.

# Capstone course