

# *San Jacinto Community College District Technical Programs*



At San Jacinto Community College District, students with specific career goals may earn Associate of Applied Science degrees as preparation for careers in a wide variety of technical fields, or they may earn technical certificates as preparation for entry level employment in the shortest time possible.

Credits earned in technical courses are generally not transferable to other colleges or to universities. Students should carefully study and follow the degree or certificate program requirements of whatever technical field they choose at the College.

# Technical Programs

Major Codes	Technical Programs
3ACNT	Accounting A.A.S.
4ACNT	Accounting Certificate of Technology
6ACNT	Accounting Occupational Certificate
4AERO-DSP	Aeronautical Technology Aircraft Dispatcher Certificate of Technology
3AERO-MNT	Aeronautical Technology Aircraft Maintenance Management A.A.S.
3AERO-MGT	Aeronautical Technology Aviation Management A.A.S.
4AERO-PLT	Aeronautical Technology Career Pilot Certificate of Technology
3AERO-PDP	Aeronautical Technology Pilot Development Program A.A.S.
4AERO-PDP	Aeronautical Technology Pilot Development Program Certificate of Technology
3AIRC	Air Conditioning Technology A.A.S.
4AIRC	Air Conditioning Technology Certificate of Technology
4AIRC-COMM	Air Conditioning (Commercial and Industrial) Certificate of Technology
6AIRC	Air Conditioning (Residential) Technology Occupational Certificate
3ELECTACMPT	Applied Computer Electronics Technology A.A.S.
4ELECTACMPT	Applied Computer Electronics Technology Certificate of Technology
6ELTR-COMM	Applied Computer Electronics Communication Technology Occupational Certificate
6ELECTACMPT	Applied Computer Electronics Computer/Electronics Technician Occupational Certificate
6ABDR-PNT	Automotive Painting Occupational Certificate
6ABDR-BODY	Automotive Collision Repair Assistant Specialty Occupational Certificate
3ABDR-C	Automotive Collision Repair A.A.S.
4ABDR-C	Automotive Collision Repair Certificate of Technology
4ABDR-NC	Automotive Non-Collision Repair Certificate of Technology
3ABCR-MGT	Automotive Collision Repair Technology-Management Specialty A.A.S.
4ABCR-MGT	Automotive Collision Repair Technology-Management Specialty Certificate of Technology
3ART-COMM	Art-Commercial-A.A.S.
4ART-COMM	Art-Commercial Certificate of Technology
6ART-MMCA	Art-Commercial Multimedia/Animation-Occupational Certificate
3AUTO	Automotive Technology A.A.S.
3AUTO-AC	Automotive Technology-AC Delco A.A.S.
4AUTO-AC	Automotive Technology-AC Delco Certificate of Technology
4AUTO	Automotive Technology-Basic Certificate of Technology
3AUTO-C	Automotive Technology-Daimler Chrysler
3AUTO-F	Automotive Technology-Ford A.A.S.
4AUTO-F	Automotive Technology-Ford Maintenance and Light Repair Certificate of Technology
3AUTO-G	Automotive Technology-General Motors A.A.S.
3AUTO-H	Automotive Technology-Honda A.A.S.
4AUTO-H	Automotive Technology-Honda Certificate of Technology
4AUTO-HM	Automotive-Honda Maintenance and Light Repair Certificate of Technology
4AUTO-MCN	Automotive Technology-Machinist Certificate of Technology
4AUTO-MLR	Automotive Technology-Maintenance and Light Repair Certificate of Technology
3AUTO-T	Automotive Technology-Toyota A.A.S.
4AUTO-T	Automotive Technology-Toyota Certificate of Technology
4AUTO-UC	Automotive Technology-Certificate of Technology
4AUTO-UH	Automotive Tech-Under Hood Certificate of Technology
3BMGT-SUPR	Business Mgmt - Supervision A.A.S.
4BMGT-SUPR	Business Mgmt - Supervision Certificate of Technology
6BMGT-SUPR	Business Mgmt - Supervision Occupational Certificate
3BMGT-ENTR	Business Mgmt - Small Business Entrepreneur A.A.S.
4BMGT-SMBU	Business Mgmt - Small Business Entrepreneur Certificate of Technology
6BMGT-ECOM	Business Management - E Commerce Occupational Certificate
3BOFT-EXE	Business Office Technology-Executive/Administrative Assistant A.A.S.
4BOFT-E	Business Office Technology-Executive/Administrative Assistant Certificate of Technology
6BOFT-CL	Business Office Technology-General Office Clerk Occupational Certificate
3BOFT-LGL	Business Office Technology-Legal Secretary A.A.S.
4BOFT-L	Business Office Technology-Legal Secretary Certificate of Technology
3BOFT-M	Business Office Technology-Medical Administrative Assistant A.A.S.
4BOFT-M	Business Office Technology-Medical Administrative Assistant Certificate of Technology
4BOFT-SW	Business Software Specialist Certificate of Technology
6CHID-ADM	Child Care/Early Childhood Education Child Care Administrator's Credential Occupational Certificate
6CHID-DIR	Child Development/Early Childhood Education Associate Training for Director-Occupational Certificate

Major Codes	Technical Programs
7CHID-CUR	Child Development/Early Childhood Education Curriculum Specialist-
3CHID	Child Development/Early Childhood Education A.A.S.
4CHID	Child Development/Early Childhood Education Certificate of Technology
4CHID-TA	Child Development/Early Childhood Education-Teacher Aide Certificate of Technology
6CIS-ABDD	Computer Information Systems-Advanced Database Design-Occupational Certificate
3CIS-APPL	Computer Information Systems-Applications Programming A.A.S.
3CIS-ITS	Computer Information Systems-Info Tech Security A.A.S.
4CIS-ITS	Computer Information Systems-Info Tech Security Certificate of Technology
6CIS-APPL	Computer Information Systems-Applications Programming Certificate of Technology
4CIS-DBD	Computer Information Systems-Database Design-Certificate of Technology-
4CIS-GAME	Computer Information Systems-Game Design and Development Certificate of Technology
6CIS-GAME	Computer Information Systems-Game Design and Development Occupational Certificate
6CIS-CORE	Computer Information Systems Core IT Occupational Certificate
6CIS-WP	Computer Information Systems-Windows Programming Occupational Certificate
3CIS-WBDV	Computer Information Systems-Web Applications Development A.A.S.
4CIS-WBDV	Computer Information Systems-Web Applications Development Certificate of Technology
4CIS-WPDI	Computer Information Systems-Web Page Design and Implementation Certificate of Technology
3CIS-SUPP	Computer Information Systems-Computer Support A.A.S.
4CIS-SUPP	Computer Information Systems-Computer Support Certificate of Technology
3CIS-NW-M	Computer Information Systems-Network Administration Microsoft Specialty A.A.S.
4CIS-NW-M	Computer Information Systems-Network Administration Microsoft Specialty Certificate of Technology
3CIS-NW-SEC	Computer Information Systems-Network Administration Security-A.A.S.
6CIS-BMS	Computer Information Systems-Beginning Network Microsoft Specialty Occupational Certificate
6CIS-AMS	Computer Information Systems-Advanced Network Microsoft Specialty Occupational Certificate
3CIS-NW-C	Computer Information Systems-Network Administration Cisco Specialty A.A.S.
4CIS-NW-C	Computer Information Systems-Network Administration Cisco Specialty Certificate of Technology
6CIS-BC	Computer Information Systems-Beginning Network Administration Cisco Specialty Occupational Certificate
6CIS-AC	Computer Information Systems-Advanced Network Administration Cisco Occupational Certificate
6CIS-SEC	Computer Information Systems-Advanced Information Technology Security Occupational Certificate
6CIS-ECOM	Computer Information Systems-E-Commerce/Web Page Design Occupational Certificate
6CIS-BDBS	Computer Information Systems-Beginning Database Specialist Occupational Certificate
N-TRCK-DRV	Commercial Truck Driving (CE)
6COSM-FAC	Cosmetology-Facial Occupational Certificate
6COSM-HWV	Cosmetology-Hairweaving and Braiding Marketable Skills Achiever Award
3COSM-INST	Cosmetology Instructor A.A.S.
4COSM-INST	Cosmetology Instructor Certificate of Technology
6COSM-NAI	Cosmetology-Nail Technician Occupational Certificate
3COSM-OP	Cosmetology Operator A.A.S.
4COSM-OP	Cosmetology Operator Certificate of Technology
4COSM-OPHS	Cosmetology-High School Cosmetology Operator Dual Credit Certificate of Technology
4CRJU-APO	Criminal Justice-Academic Peace Officer Licensure Certificate of Technology
4CRJU-CORE	Criminal Justice-Core Certificate of Technology
4CRJU-CORR	Criminal Justice-Corrections Option Certificate of Technology
4CRJU-CSTS	Criminal Justice-Crime Scene Technician Certificate of Technology
3CRJU-LE	Criminal Justice-Law Enforcement A.A.S.
4CRJU-LE	Criminal Justice-Law Enforcement Certificate of Technology
3CRJU-SS	Criminal Justice-Social Services A.A.S.
4CRJU-SS	Criminal Justice-Social Services Certificate of Technology
3CULA-A	Culinary Arts-Chef's Apprenticeship Training A.A.S.
4CULA-A	Culinary Arts-Chef's Apprenticeship Training Certificate of Technology
3CULA-C	Culinary Arts-Chef Training A.A.S.
4CULA-C	Culinary Arts-Chef Training Certificate of Technology
3CULA-RESM	Culinary Arts-Restaurant Management A.A.S.

Major Codes	Technical Programs
4CULA-RESM	Culinary Arts–Restaurant Management Certificate of Technology
3DEMR	Diesel Repair Technology A.A.S.
4DEMR	Diesel Repair Technology Certificate of Technology
3DIET-NUTR	Dietetic Technician–Nutrition Care A.A.S.
4DIET-NUTR	Dietetic Technician–Nutrition Care Certificate of Technology
3DIET-FSVC	Dietetics–Food Service Management A.A.S.
4DIET-FSVC	Dietetics–Food Service Management Certificate of Technology
6ELEC-TEC	Electrical Technician Occupational Certificate
3ELEC	Electrical Technician A.A.S.
4ELEC-TEC	Electrical Technician Certificate of Technology
3EL-INST	Electronic Instrumentation A.A.S.
4EL-INST	Electronic Instrumentation Certificate of Technology
3EMT	Emergency Medical Technology A.A.S.
4EMT	Emergency Medical Technology Certificate of Technology
6EMT	Emergency Medical Technology Occupational Certificate
6EMT-Bandi	Emergency Medical Technology Basic and Intermediate Occupational Certificate
0ESOL	English for Speakers of Other Languages
3DFTG	Engineering Design Graphics A.A.S.
3DFT-ACS	Engineering Design Graphics Architectural/Civil/Structural Drafting Specialty A.A.S.
3DFT-I	Engineering Design Graphics Industrial Drafting Specialty A.A.S.
3DFT-M	Engineering Design Graphics Mechanical Drafting Specialty A.A.S.
3DFT-PI	Engineering Design Graphics Petro/Industrial Drafting Specialty A.A.S.
3DFT-TA	Engineering Design Graphics Technical Animator/Modeler Drafting Specialty A.A.S.
4DFTG	Engineering Design Graphics Certificate of Technology
4DFT-ACS	Engineering Design Graphics Architectural/Civil/Structural Drafting Specialty Certificate of Technology
4DFT-I	Engineering Design Graphics Industrial Drafting Specialty Certificate of Technology
4DFT-M	Engineering Design Graphics Mechanical Drafting Specialty Certificate of Technology
4DFT-PI	Engineering Design Graphics Petro/Industrial Drafting Specialty Certificate of Technology
4DFT-TA	Engineering Design Graphics Technical Animator/Modeler Drafting Specialty Certificate of Technology
3FIRE-PROT	Fire Protection Technology–Firefighting A.A.S.
4FIREFTG	Fire Protection Technology–Firefighting Certificate of Technology
3FIRE-PMD	Fire Protection Tech–Firefighter Paramedic A.A.S.
3GEO-SCI	Geographic Information Science A.A.S.
4GEO-SCI	Geographic Information Science Certificate of Technology
6GEO-SCI	Geographic Information Science Occupational Certificate
3SRVY	Geomatic Surveying Technology A.A.S.
4SRVY	Geomatic Surveying Technology Certificate of Technology
6SRVY	Geomatic Surveying Technology Occupational Certificate
3GER-SVCS	Gerontology Services A.A.S.
4GER-SVCS	Gerontology Services Certificate of Technology
3HITT-INF	Health Information Management A.A.S.
6HITT-INF	Health Information Management–Cancer Data Management Occupational Certificate
4HITT-MDC	Health Information Management–Medical Coding Certificate of Technology
4HITT-MBL	Health Information Management–Medical Billing and Coding Certificate of Technology
3INST	Instrumentation Technology A.A.S.
4INST	Instrumentation Technology Certificate of Technology
3INTD-DSGN	Interior Design A.A.S.
4INTD-DSGN	Interior Design Certificate of Technology
4INTD-PRO	Interior Design–Professional Credential in Interior Design Certificate of Technology
3INTL-BU	International Business and Trade A.A.S.
4INTL-BU	International Business and Trade Certificate of Technology
6INTL-BU	International Business and Trade Occupational Certificate
4NUR-LVN	Licensed Vocational Nurse Certificate of Technology
6MRADCMP	Medical Imaging Technology–Computed Tomography Occupational Certificate
6MRAD-MRI	Medical Imaging Technology–Medical Resonance Imaging Occupational Certificate
4MED-ASST	Medical Assistant Certificate of Technology
3MED-LABT	Medical Laboratory Technology A.A.S.
6MED-CLA	Medical Laboratory Technology–Clinical Laboratory Assistant Occupational Certificate
3MED-RAD	Medical Radiography A.A.S.

Major Codes	Technical Programs
3MH-PSYC	Mental Health Clinical and Counseling Psychology A.A.S.
4MH-TECH	Mental Health Technician Certificate of Technology
4MH-SAC	Mental Health Substance Abuse Counseling Certificate of Technology
3MUS-RCRD	Music–Recording A.A.S.
4MUS-BRCST	Music–Audio Broadcast Technology Certificate of Technology
4MUS-AUDI	Music–Techniques of Audio Engineering Certificate of Technology
6MUS-SOUND	Music–Sound Recording Occupational Certificate
3NUR-LMOB	Nursing–LVN–RN Mobility A.A.S.
3NUR-LTRN	Nursing–LVN–RN Transition A.A.S.
3NUR-PMOB	Nursing–Paramedic–RN Mobility A.A.S.
3NUR-PTRN	Nursing–Paramedic–RN Transition A.A.S.
3NURS	Nursing–Associate Degree RN A.A.S.
3OCC-HLTH	Occupational Health and Safety Technology A.A.S.
4OCC-HLTH	Occupational Health and Safety Technology Certificate of Technology
3PARA-LGL	Paralegal A.A.S.
4PHAR	Pharmacy Technician Certificate of Technology
3PH-THRPY	Physical Therapist Assistant A.A.S.
3PROT-CHM	Process Technology–Chemical Lab Technician A.A.S.
3PROT	Process Technology A.A.S.
4PROT	Process Technology Certificate of Technology
3REAL	Real Estate A.A.S.
4REAL	Real Estate Certificate of Technology
6REAL	Real Estate Occupational Certificate
3RESP	Respiratory Care A.A.S.
3SURT	Surgical Technology A.A.S.
4SURT	Surgical Technology Certificate of Technology
3VSN	Vision Care Technology A.A.S.
4VSN	Vision Care Technology Certificate of Technology
6VSN	Vision Care Technology Occupational Certificate
3VCOM	Visual Communications A.A.S.
4VCOM	Visual Communications Certificate of Technology
4VCOMM	Visual Communications–Multimedia/Animation Certificate of Technology
4WLD-GAS	Welding Technology–Gas Shielded Welding Certificate of Technology
3WLD-NDT	Welding Technology–Non-Destructive Testing A.A.S.
4WLD-NDT	Welding Technology–Non-Destructive Testing Certificate of Technology
6WLD-NDT	Welding Technology–Non-Destructive Testing Occupational Certificate
6WLD-QAT	Welding Technology–Quality Assurance Technology Occupational Certificate
6WLD-STI	Welding Technology–Stick Pipe Occupational Certificate
6WLD-STR	Welding Technology–Structural Welder Occupational Certificate
3WLD	Welding Technology A.A.S.
4WLD-C	Welding Technology–Combination Welder Certificate of Technology

## Associate of Applied Science Degree

All associate of applied science (A.A.S.) degrees have these requirements in common:

1. A minimum of 15 semester credit hours of general education courses. Courses that satisfy this requirement are listed in the Transfer Core Curriculum, unless otherwise indicated.
2. Basic skills in the use of computers.

Other requirements for the (A.A.S.) degree are dependent upon the particular technical program. The technical courses included in this degree are not designed to be transferable

## Technical Programs

to senior institutions; however, some colleges may accept certain courses in transfer. Students should consult a College counselor or the chair of the department offering the program for information regarding possible transfer of technical courses.

The curricula for the Associate of Applied Science Degree programs are included in this section of the Catalog, listed alphabetically by major. For additional requirements for these degrees, students should refer to the section titled Awarding of Degrees and Certificates.

## Technical Certificates

The College offers technical certificates as evidence that students have completed a certain set of technical courses designed to develop one or more skills related to a particular career field. Students may receive a certificate of technology, an occupational certificate, and/or a certificate of specialization.

For general requirements for each of these certificates, students should refer to the section titled Awarding of Degrees and Certificates. For specific course requirements for these certificates, students should refer to the particular technical program listed alphabetically by major in this section of the Catalog.

For additional information concerning technical certificates, students should consult a College counselor or speak with the chair of the department offering the certificate program.

## Accounting

### Accounting Associate of Applied Science Degree

#### All Campuses

The Accounting Associate of Applied Science Degree is an accelerated two-year accounting program for people preparing for immediate careers in accounting. Students pursuing a bachelor's degree in accounting should refer to the information about the associate of arts degree in the Transfer Programs section and see a counselor prior to registration.

First Term	Credit
ACCT 2301—Accounting Principles I .....	3
ACNT 1331—Federal Income Tax: Individual .....	3
BUSI 1301—Introduction to Business .....	3
BCIS 1305—Business Computer Applications .....	3
BUSI 2301—Business Law I .....	3
	<b>15</b>

#### Second Term

ACCT 2302—Accounting Principles II .....	3
ACNT 2303—Intermediate Accounting I .....	3
ACNT 1329—Payroll and Business Tax Accounting .....	3
ACNT 1311—Introduction to Computerized Accounting .....	3
BUSG 2317—Business Law/Commercial .....	3
SPCH 1315—Public Speaking or SPCH 1321—Business and Professional Speech .....	<b>3</b>
	<b>18</b>

#### Third Term

ACNT 2304—Intermediate Accounting II .....	3
ACNT 2309—Cost Accounting .....	3
BUSI 2304—Business Communications .....	3
ENGL 1301—Composition I .....	3
Economics or Psychology or Sociology .....	3
PHED Activity .....	1
	<b>16</b>

#### Fourth Term

ACNT 2366—Practicum—Accounting .....	3
BUSG 2309—Small Business Management .....	3
ENGL 2311—Technical Report Writing .....	3
MATH 1333 Contemporary Mathematics for Tech .....	3
PHED Activity .....	1
*Humanities or Fine Arts .....	3
	<b>16</b>

#### Associate of Applied Science Degree Total

**65**

#### Capstone Experience: ACNT 2366

\* Courses that satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.

## Accounting Certificate of Technology

#### All Campuses

The Accounting Certificate of Technology is designed to prepare students for early entry into an accounting career. At least one half of the credit hours must be earned at San Jacinto Community College District.

These courses are required for the certificate of technology and also qualify as the first two terms of the Associate of Applied Science Degree in Accounting.

	Credit
ACCT 2301—Accounting Principles I .....	3
ACCT 2302—Accounting Principles II .....	3
ACNT 2303—Intermediate Accounting I .....	3
ACNT 1329—Payroll and Business Tax Accounting .....	3
ACNT 1331—Federal Income Tax: Individual .....	3

ACNT 1311—Introduction to Computerized Accounting .....	3
BUSI 1301—Introduction to Business .....	3
BCIS 1305—Business Computer Applications.....	3
BUSI 2301—Business Law I .....	3
BUSG 2317—Business Law/Commercial .....	3
SPCH 1315—Public Speaking or SPCH 1321—Business and Professional Speech .....	3
<b>Certificate of Technology Total</b>	<b>33</b>
<b>Capstone Experience: ACNT 1311</b>	

## Accounting Occupational Certificate

### All Campuses

The purpose of this certificate is to provide short-term, intensive training in accounting theory and procedures, and in the use of business machines and accounting software.

All of the courses required for this certificate also apply toward the Certificate of Technology and the Associate of Applied Science Degree in Accounting.

	<b>Credit</b>
ACCT 2301—Accounting Principles I .....	3
ACCT 2302—Accounting Principles II .....	3
ACNT 1329—Payroll and Business Tax Accounting .....	3
ACNT 1331—Federal Income Tax: Individual.....	3
ACNT 1311—Introduction to Computerized Accounting .....	3
BUSI 1301—Introduction to Business .....	3
BCIS 1305—Business Computer Applications.....	3
<b>Occupational Certificate Total</b>	<b>21</b>
<b>Capstone Experience: ACNT 1311</b>	

## Accounting Certificate of Specialization

### All Campuses

The Accounting Certificate of Specialization is designed to meet the needs of those students who desire to enter the business world in a minimum of time.

Upon completion of the certificate requirements with a grade of C or above in each course, students should apply to the Business Administration Department for the certificate.

All courses required for this certificate apply toward the Accounting Occupational Certificate, except ACNT 1303 and ACNT 1304.

### Accounting Clerk Trainee

#### 2–3 Terms/9–12 Semester Hours Credit

ACCT 2301—Accounting Principles I or ACNT 1303—Introduction to Accounting I and ACNT 1304—Introduction to Accounting II
ACNT 1311—Introduction to Computerized Accounting
BUSI 1301—Introduction to Business

## Aeronautical Technology

### Central Campus Only

All students must have the approval of the Aeronautical Department chair before enrolling in flight courses. Fees for flight courses will be in addition to normal college tuition and fees, and are subject to contractual and federal aviation regulation changes.

I) To be eligible for the A.A.S. degree, students will complete their flight courses through the College-approved flight contractor for College credit. The following exceptions: however, apply:

A) Students who have obtained a private, commercial, instrument and/or multi-engine rating prior to their first admission to the San Jacinto Community College District Pilot Program may apply for advanced placement testing and/or course substitution according to the following guidelines:

- 1) Up to 16 semester hours of credit may be awarded by advanced placement testing for the following courses: AIRP 1215, 1255, 1301, 1311, 1451, 2239, 2250, 2251, and 2337. Students must apply for and complete an advanced placement test before completion of the first term of enrollment in aviation courses.
- 2) In addition to receiving authorization for a maximum of 16 semester hours of advanced placement credit, students may petition the department chair for approval to take substitute courses for required courses in the curriculum for which they have earned certain certifications and/or ratings prior to entering San Jacinto Community College District. Substitute courses are listed below and are acceptable, with department chair approval, in specific options in which the course is not included as a requirement.
- 3) The following courses are acceptable in specific options in which the course is not included as a requirement:

ACCT 2301	ACCT 2302	AIRP 1341	AIRP 1345
AIRP 2242	AIRP 2243	AIRP 2251	AIRP 2331
AIRP 2333	AIRP 2336	AIRP 2352	AIRP 2353
AIRP 2357	AVIM 2335	AVIM 2337	AVIM 2339
BMGT 1301	BMGT 1303	BMGT 1313	CHEM 1411
CHEM 1412	DFTG 1405	DFTG 2417	ECON 2301
ECON 2302	ELPT 1311	ENGL 1302	HRPO 1311
HRPO 2301	ITSC 1301	ITSC 1305	ITSC 1309
ITSC 1310	ITSC 1318	ITSC 1329	ITSC 1331
MATH 1314	MATH 1316	MATH 1324	MATH 1325
MATH 2312	MATH 2318	MATH 2320	MATH 2413
MATH 2414	MATH 2415	MRKG 1311	PHYS 1401
SPAN 1411	SPAN 1412	SPAN 2311	SPAN 2312
MATH 1333			

4) All flight course requirements must be verified by an Aeronautical Department examination of the student's logbook.

B) Students who provide documentation of total flight hours accumulated prior to their admission to the San Jacinto Community College District Pilot Program, and who obtained this training at an FAR Part 141 certified school may apply to transfer up to one-half of those hours into the San Jacinto Community College District Pilot Program and to apply those hours toward flight course requirements.

C) Students who provide documentation of total flight hours accumulated prior to their first admission to the San Jacinto Community College District Pilot Program and who have obtained this training under an FAR Part 61, may apply to transfer up to one-fourth of those hours into the San Jacinto Community College District Pilot Program and to apply those hours toward flight course requirements.

II) Students may elect to contract directly with the College-approved flight contractor for flight instruction and pay the cost of that instruction to the contractor. Such students would petition the Aeronautical Department chair for approval to take other credit courses which would substitute for the required flight courses in the degree program. Students who choose this arrangement may not be eligible for College financial assistance.

III) The College may withdraw any student from a flight course for the following reasons:

A) Student's failure to conform to published FAA regulations.

B) Student's failure to conform to the flight contractor's College-approved course syllabus, and College-approved safety rules and regulations as published in the Flight Student Handbook.

C) Student's involvement in one or more FAA reportable accidents or incidents.

IV) The College may, upon the flight contractor's recommendation, refuse to enroll a student in a subsequent flight course.

V) A student who is denied enrollment in or is withdrawn from a flight course may appeal this decision by following the sequence specified for grade appeal in the SJC Student Handbook.

VI) Students may enroll in a maximum of two flight courses per registration period.

VII) Aviation students must maintain a grade point average of at least 2.0 in all aviation courses. Students enrolled in flight courses must earn a grade of C or above in order to progress to the next flight course.

### Hazlewood Tuition Exemption (Section 54.203, Education Code)

The following conditions apply to students seeking exemption from payment of flight fees under the provisions of Section 54.203, Education Code.

A) Students eligible under the Hazlewood Act may be eligible for a partial Hazlewood exemption if the cost of registration exceeds the amount of V.A. Education Benefits received. (See V.A. Counselor in the Financial Aid Office for details.)

B) All flight courses are eligible for the Hazlewood exemption; however, a student may enroll in each flight course only one time under this exemption. Also, a student is limited to two flight courses per term.

### Aircraft Dispatcher - Certificate of Technology

#### Central Campus Only

Students must be at least 22 1/2 years old to enroll in AIRP 2353

First Term	Credit
AIRP 1301—Air Navigation .....	3
AIRP 1307—Aviation Meteorology .....	3
AIRP 1311—Flight Theory .....	3
AIRP 1341—Advanced Air Navigation .....	3
AIRP 1451—Instrument Ground School .....	4

## Second Term

AIRP 2331–Advanced Meteorology .....	3
AIRP 2333–Aircraft Systems .....	3
AIRP 2355–Propulsion Systems .....	3
AIRP 2352–Practical Dispatching I .....	3
AIRP 2353–Practical Dispatching II .....	3
	<b>15</b>

**Certificate of Technology Total** **31**

**Capstone Experience:** **Federal Aviation Administration  
Airline Dispatcher written and  
practical examinations.**

## Career Pilot - Certificate of Technology

### Central Campus Only

First Term	Credit
AIRP 1301–Air Navigation .....	3
AIRP 1307–Aviation Meteorology .....	3
AIRP 1311–Flight Theory .....	3
AIRP 1215–Private Flight .....	2
	<b>11</b>

### Second Term

AIRP 1341–Advanced Air Navigation .....	3
AIRP 1451–Instrument Ground School .....	4
AIRP 2331–Advanced Meteorology .....	3
AIRP 2250–Instrument Flight .....	2
AIRP 1255–Intermediate Flight .....	2
	<b>14</b>

### Third Term

AIRP 2337–Commercial Ground School .....	3
AIRP 2239–Commercial Flight .....	2
AIRP 2251–Multi-Engine Flight .....	2
AIRP 2336–Certified Flight Instructor-Airplane or AIRP 2242–Flight Instructor-Instrument Airplane or AIRP 2243–Flight Instructor-Multi-Engine Airplane.....	2-3
	<b>10-11</b>

**Certificate of Technology Total** **35-36**

**Capstone Experience:** **Federal Aviation Administration,  
Private, Commercial, Instrument and  
Flight Instructor or Multi-Engine or  
Instrument Flight Instructor or Multi-  
Engine Flight Instructor written and  
practical examinations.**

**Note:** Optional courses which may be taken for the certificate of technology in lieu of AIRP 1215 and 1255: AIRP 2242, 2251, or 2243.

## Aviation Management

### Associate of Applied Science Degree

#### Central Campus Only

Aviation Management is a two-year program leading to an Associate of Applied Science Degree. The curriculum includes basic management and business courses, plus advanced courses directed toward the application of principles of management and marketing to aviation industry problems.

Graduates of this program may consider employment in airport and airline management, general aviation sales and services, or in a government agency serving aviation.

First Term	Credit
AIRP 1311–Flight Theory .....	3
AVIM 1301–Introduction to Aviation Management .....	3
ENGL 1301–Composition I .....	3
HRPO 1311–Human Relations.....	3
*MATH 1333–Contemporary Mathematics for Technical Programs .....	3
PHED Activity .....	1
	<b>16</b>

#### Second Term

AIRP 1307–Aviation Meteorology .....	3
**Humanities or Fine Arts .....	3
ECON 2302–Principles of Microeconomics.....	3
ENGL 2311–Technical Report Writing.....	3
BMGT 1303–Principles of Management .....	3
PHED Activity .....	1
	<b>16</b>

#### Third Term

ACCT 2301–Accounting Principles I .....	3
BUSI 2301–Business Law I .....	3
HRPO 2301–Human Resource Management .....	3
Speech .....	3
PSYC 2301–General Psychology .....	3
Computer Science or Computer Information Systems.....	3
	<b>18</b>

#### Fourth Term

Approved Aviation Electives .....	12
BUSG 2309–Small Business Management .....	3
	<b>15</b>

**Associate of Applied Science Degree Total** **65**

**Capstone Experience:** **Aviation Business Plan**

\* Remedial courses (those courses beginning with 0) do not apply toward the associate degree.

\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

# Technical Programs

## Approved Electives

AIRP 1345	AVIM 2335	AVIM 2337	AVIM 2339
AVIM 2331	AVIM 1301		

## Aircraft Maintenance Management Speciality Associate of Applied Science Degree

### Central Campus Only

San Jacinto Community College District recognizes the Federal Aviation Administration (FAA) Certification for Airframe and Powerplant Technician as the equivalent of 30 semester hours of college course work. In addition to this FAA certification, 41 semester credit hours (as specified in the Aircraft Maintenance Management Option curriculum) are required for the degree. Students who expect to receive VA educational benefits must have their FAA certification in Airframe and Powerplant prior to enrolling in the program.

First Term	Credit
BMGT 1301—Supervision .....	3
Computer Science or Computer Information Systems.....	3
ENGL 1301—Composition I .....	3
BMGT 1313—Principles of Purchasing .....	3
Speech .....	3
**Behavioral or Social Science .....	3
	<b>18</b>

Second Term	Credit
Approved Aviation Electives .....	6
ENGL 2311—Technical Report Writing.....	3
*MATH 1333—Contemporary Mathematics for Technical Programs .....	3
BMGT 1303—Principles of Management .....	3
PHED Activity .....	1
	<b>16</b>

Third Term	Credit
**Humanities or Fine Arts .....	3
ACCT 2301—Accounting Principles I .....	3
PHED Activity .....	1
	<b>7</b>

**Associate of Applied Science Degree Total** **41**

**Capstone Experience: Aviation Business Plan**

\* Remedial courses (those courses beginning with 0) do not apply toward the associate degree.

\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

## Approved Electives

AIRP 1345	AVIM 2335	AVIM 2339	AVIM 2331
AVIM 2337	AVIM 1301		

## Pilot Development Program (PDP) Associate of Applied Science Degree

### Central Campus Only

The PDP is an ongoing effort of the College and the Delta Connection Academy to address the need for quality-trained airline pilots.

The objective of this program is to prepare a student with no prior flight experience for an entry-level position as first officer with a regional airline. Each student is carefully tracked and evaluated in the areas of knowledge, attitude, aptitude, and flying skills. Graduates will be given an opportunity to teach for the Delta Connection Academy. Successful students may be given interviews for a first officer position with one of the Delta Connection Academy approved FAA Part 121 air carriers, including Continental Express.

After graduates receive a hiring offer, they will receive additional flight training to further prepare them for a successful career as an airline pilot.

For additional information see the Aeronautical Department chair.

First Term	Credit
AIRP 1301—Air Navigation .....	3
AIRP 1307—Aviation Meteorology .....	3
AIRP 1311—Flight Theory .....	3
AIRP 1215—Private Flight .....	2
*MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra .....	3
AIRP 1347—Human Factors in Aviation .....	3
	<b>17</b>

Second Term	Credit
AIRP 1341—Advanced Air Navigation .....	3
AIRP 1451—Instrument Ground School .....	4
AIRP 2331—Advanced Meteorology .....	3
AIRP 2250—Instrument Flight .....	2
AIRP 1255—Intermediate Flight .....	2
ENGL 1301—Composition I .....	3
	<b>17</b>

Third Term	Credit
AIRP 2337—Commercial Ground School .....	3
AIRP 1343—Aerodynamics.....	3
AIRP 2355—Propulsion Systems .....	3
AIRP 2239—Commercial Flight .....	2
ENGL 2311—Technical Report Writing.....	3
*Behavioral or Social Science .....	3
PHED Activity .....	1
	<b>18</b>

## Fourth Term

AIRP 2333—Aircraft Systems .....	3
AVIM 2331—Airline Management .....	3
AIRP 2251—Multi-Engine Flight .....	2
*Humanities or Fine Arts .....	3
PHED Activity .....	1
Speech .....	3
AIRP 2357—Turbine Aircraft Systems Ground School .....	3
	<b>18</b>

## Associate of Applied Science Degree Total

**18**  
**70**

**Capstone Experience:** **Federal Aviation Administration, Private, Commercial and Instrument written and practical examinations.**

\* Remedial courses (those courses beginning with 0) do not apply toward the associate degree.

\*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

- AIRP 1215—requires 19 hours of Flight Trainer laboratory.
- AIRP 1255—requires 7 hours of Flight Trainer laboratory.
- AIRP 2239—requires 16 hours of Flight Trainer laboratory.
- AIRP 2250—requires 24 hours of Flight Trainer laboratory.
- AIRP 2251—requires 8 hours of Flight Trainer laboratory.

### Notes:

- Hours indicated for flight courses are flying hours and do not reflect the hours of oral instruction.
- A combination of AIRP 1301, 1307, and 1311 prepares students to take the FAA Private Pilot written examination.
- The completion of AIRP 2337 prepares students to take the FAA Commercial Pilot written examination.
- The completion of AIRP 1451 prepares the student to take the FAA Instrument Pilot written examination.

## Pilot Development Program (PDP)

### Certificate of Technology

#### Central Campus Only

	Credit
AIRP 1307—Aviation Meteorology .....	3
AIRP 1347—Human Factors in Aviation .....	3
AIRP 1343—Aerodynamics.....	3
AIRP 2355—Propulsions Systems .....	3
AIRP 2331—Advanced Meteorology .....	3
AVIM 2331—Airline Management.....	3
AVIM 1301—Introduction to Aviation Management or AVIM 2339—Aviation Marketing.....	3
AIRP 2333—Aircraft Systems .....	3
AIRP 2357—Turbine Aircraft Systems Ground School .....	3

## Certificate of Technology Total

**27**

**Capstone Experience:** **Comprehensive Department Examination**

## Air Conditioning Technology

### Air Conditioning Technology

#### Associate of Applied Science Degree

#### North and South Campuses Only

The Air Conditioning Technology program is designed to provide students with the entry-level skills necessary required for employment as technicians in residential and light commercial air conditioning, refrigeration, and heating.

A graduate of this program will have a good foundation in the principles of air conditioning, refrigeration, and heating, with main emphasis on troubleshooting and service. Related topics of energy conservation, air systems analysis, and air conditioning codes are also thoroughly covered.

#### First Term

	Credit
HART 1401—Basic Electricity for HVAC .....	4
HART 1407—Refrigeration Principles .....	4
HART 1441—Residential Air Conditioning .....	4
HART 1445—Gas and Electric Heating.....	4
PHED Activity .....	1
	<b>17</b>

#### Second Term

HART 2442—Commercial Refrigeration .....	4
HART 2431—Advanced Electricity .....	4
HART 2441—Commercial Air Conditioning.....	4
ENGL 1301—Composition I .....	3
PHED Activity .....	1
	<b>16</b>

#### Third Term

Air Conditioning Approved Elective .....	3-4
Air Conditioning Approved Elective .....	3-4
MATH 1333—Contemporary Mathematics for Technical Programs .....	3
ENGL 2311—Technical Report Writing.....	3
BUSG 2309—Small Business Management.....	3
	<b>15-17</b>

#### Fourth Term

HART 2345—Residential Air Conditioning Systems Design .....	3
HART 2302—Commercial Air Conditioning System Design.....	3
HART 2301—A/C and Refrigeration Codes or HART 2368—Practicum—Heating, A/C and Refrigeration Tech.....	3
Speech .....	3
*Behavioral or Social Science .....	3
*Humanities or Fine Arts .....	3

**18**

# Technical Programs

**Associate of Applied Science Degree Total** **66–68**  
**Capstone Experience:** HART 2301 or HART 2368

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

Approved Electives

HART 2301	HART 2368	HART 2334	HART 2436
HART 2343	HART 2449		

## Commercial and Industrial Air Conditioning Certificate of Technology

**North and South Campuses Only**

The Commercial and Industrial Air Conditioning Certificate of Technology Program is designed to provide students with both general knowledge of air conditioning and also advanced knowledge of commercial and industrial air conditioning applications.

	<b>Credit</b>
HART 1401–Basic Electricity for HVAC .....	4
HART 1407–Refrigeration Principles .....	4
HART 1441–Residential Air Conditioning .....	4
HART 1445–Gas and Electric Heating.....	4
HART 2431–Advanced Electricity .....	4
HART 2441–Commercial Air Conditioning.....	4
HART 2368–Practicum–Heating A/C and Refrigeration Tech or	
HART 2301–A/C and Refrigeration Codes .....	3
HART 2302–Commercial Air Conditioning System Design.....	3
HART 2343–Industrial Air Conditioning.....	3
HART 2334–Advanced A/C Controls .....	3
Air Conditioning Approved Electives .....	9
<b>Certificate of Technology Total</b>	<b>45</b>

**Capstone Experience:** HART 2343

Approved Electives

HART 2301	HART 2368	HART 2449	HART 2345
HART 2442	HART 2436		

## Air Conditioning Technology Certificate of Technology

**North and South Campuses Only**

The Air Conditioning Certificate of Technology Program is designed to provide students with general knowledge required of air conditioning service technicians and/or air conditioning contractors.

**Credit**

HART 1401–Basic Electricity for HVAC .....	4
HART 1407–Refrigeration Principles .....	4
HART 1441–Residential Air Conditioning .....	4
HART 1445–Gas and Electric Heating.....	4
HART 2431–Advanced Electricity .....	4
HART 2441–Commercial Air Conditioning.....	4
HART 2368–Practicum–Heating A/C and Refrigeration Tech. or HART 2301–A/C and Refrigeration Codes .....	3
Air Conditioning Approved Elective .....	3–4

**Certificate of Technology Total** **30–31**

**Capstone Experience:** HART 2301 or HART 2368

Approved Electives

HART 2368	HART 2449	HART 2301	HART 2302
HART 2334	HART 2343	HART 2345	HART 2436
HART 2442			

## Air Conditioning Technology Occupational Certificate

The Air Conditioning Occupational Certificate Program is designed to provide students with entry-level skills in the field of residential air conditioning and heating. The purpose of this certificate is to provide short-term training in air conditioning.

Students are eligible for the certificate indicated upon completion of the designated courses. All the courses in this certificate also apply toward the certificate of technology and the Associate of Applied Science Degree.

	<b>Credit</b>
HART 1401–Basic Electricity for HVAC .....	4
HART 1407–Refrigeration Principles .....	4
HART 1441–Residential Air Conditioning .....	4
HART 1445–Gas and Electric Heating.....	4
<b>Occupational Certificate Total</b>	<b>16</b>

**Capstone Experience:** HART 1441

## Applied Computer Electronics Technology

### Applied Computer Electronics Technology Associate of Applied Science Degree

#### Central and South Campuses Only

The Applied Computer Electronics Technology curriculum is designed to provide basic training for entry-level jobs in a variety of occupations in the field of electronics and computer engineering technology. A graduate of this program will have a good foundation in the principles of electronics with an emphasis on digital electronics and computers. The program provides training in advanced microprocessor applications and basic automation and robotics.

Graduates from this program should be capable of completing technical assignments in the fields of digital electronics, analog electronics, communications, and computer maintenance. The computer maintenance components of this program conform to the A+ and Net+ certification guidelines.

First Term	Credit
CETT 1303—DC Circuits .....	3
CETT 1325—Digital Fundamentals .....	3
CPMT 1303—Introduction to Computer Technology .....	3
ENGL 1301—Composition I .....	3
*MATH 1333—Contemporary Mathematics for Technical Programs .....	3
PHED Activity .....	1
	<b>16</b>
<b>Second Term</b>	
CETT 1305—AC Circuits .....	3
CETT 1349—Digital Systems .....	3
CETT 1329—Solid State Devices .....	3
CPMT 1345—Computer System Maintenance .....	3
Speech .....	3
PHED Activity .....	1
	<b>16</b>
<b>Third Term</b>	
CETT 1345—Microprocessors .....	3
CETT 1357—Linear Integrated Circuits .....	3
CMPT 1349—Computer Networking Technology or ITMC 1301—Microsoft Windows Network and Operating Systems Essentials .....	3
Approved Elective .....	3
ENGL 2311—Technical Report Writing .....	3
**Humanities or Fine Arts .....	3
	<b>18</b>

#### Fourth Term

ELMT 2333—Industrial Electronics .....	3
CPMT 2449—Advanced Computer Networking Technology or Approved Elective .....	4
CPMT 2345—Computer Systems Troubleshooting .....	3
EECT 2367—Practicum (or Field Experience), Electronic Technology/ Technician .....	3
**Behavioral or Social Sciences .....	3
	<b>16</b>
<b>Associate of Applied Science Degree Total</b>	<b>66</b>

**Capstone Experience: EECT 2367**

#### Approved Electives

CETT 2449      CPMT 2333      EECT 2439      ITNW 2371

\* Students planning to pursue a baccalaureate degree should enroll in MATH 1314.

\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

## Applied Computer Electronics Technology Certificate of Technology

#### Central and South Campuses Only

The Certificate of Technology Program in Electronics Technology satisfies the basic technical requirements for a technician in support of electronics installation, fabrication, and troubleshooting associated with communications and embedded electronics applications. The student will design build and troubleshoot basic analog and digital circuits, as well as interface these circuits to systems using microprocessors and micro controllers.

First Term	Credit
CETT 1303—DC Circuits .....	3
CETT 1325—Digital Fundamentals .....	3
CETT 1305—AC Circuits .....	3
CETT 1349—Digital Systems .....	3
CETT 1329—Solid State Devices .....	3
	<b>15</b>

#### Second Term

CETT 1345—Microprocessors .....	3
CPMT 1303—Introduction to Computer Technology or Approved Elective .....	3
CPMT 1345—Computer Systems Maintenance .....	3
CPMT 1349—Computer Network Technology or Approved Elective .....	3
CPMT 2345—Computer Systems Troubleshooting .....	3
	<b>15</b>
<b>Certificate of Technology Total</b>	<b>30</b>

**Capstone Experience: CPMT 2345**

# Technical Programs

## Approved Electives

CETT 1357    CETT 2449    EECT 2367    EECT 2439  
ELMT 2333

## Electronics Communication Technology Occupational Certificate

### Central and South Campuses Only

The student in Electronics Communication Technology builds an understanding of basic analog and digital communication circuits used in radio and telephone systems. The student will be able to apply techniques for installation and troubleshooting these systems to the fields associated with radio, telephone, data-relay, and other communications systems.

CETT 1303—DC Circuits .....	3
CETT 1305—AC Circuits.....	3
CETT 1329—Solid State Devices.....	3
CETT 1325—Digital Fundamentals or CETT 1215—Digital Applications.....	3
EECT 2439—Communications Circuits or EECT 2433—Telephone Systems .....	4

**Occupational Certificate Total** **16**

**Capstone Experience:**    EECT 2439

## Applied Computer Electronics Technology Computer Maintenance Technology Specialty Occupational Certification

### Central and South Campuses Only

Students completing this certificate should be able to interface, configure, repair, and troubleshoot computer systems used in scientific, business, and industrial applications. All training is oriented towards setup and configuration of systems utilizing a variety of operating systems and hardware types. The training also prepares the student for application to the A+ and Net+ certification tests.

First Term	Credit
CETT 1303—DC Circuits .....	3
CETT 1305—AC Circuits.....	3
CETT 1325—Digital Fundamentals .....	3
CPMT 1303—Introduction to Computer Technology .....	3
CPMT 1345—Computer Systems Maintenance .....	3

**15**

### Second Term

CPMT 1349—Computer Networking Technology or ITMC 1301—Microsoft Windows Network and Operating Systems Essentials.....	3
CPMT 2345—Computer System Troubleshooting.....	3
	<b>6</b>

### Post-Year 1

#### Summer Session

CPMT 2349—Advanced Computer Networking Technology or Approved Elective.....	3
	<b>3</b>

**Occupational Certificate Total:** **24**

**Capstone Experience:**    CPMT 2345

#### Approved Electives

ITNW 2371    CPMT 2333

# Automotive Collision Repair Technology

## Automotive Collision Repair Technology Associate of Applied Science Degree

### North and South Campuses Only

Collision Repair is a skilled craft which involves repairing collision-damaged motor vehicles through straightening frames, removing dents, welding torn metal, replacing damaged parts, spot repairing, and overall refinishing. Emphasis is placed on repairing late model vehicles.

First Term	Credit
ABDR 1307—Auto Body Welding .....	3
ABDR 1519—Basic Metal Repair .....	5
ABDR 1431—Basic Refinishing .....	4
ABDR 1303—Vehicle Design and Structural Analysis .....	3
PHED Activity .....	1
	<b>16</b>

### Second Term

ABDR 2541—Major Collision Repair and Panel Replacement.....	5
ABDR 2353—Color Analysis and Paint Matching.....	3
ABDR 1315—Vehicle Interior Trim and Hardware.....	3
PHED Activity .....	1
ABDR 1441—Structural Analysis and Damage Repair I.....	4
	<b>16</b>

## Third Term

ENGL 1301–Composition I .....	3
ABDR 1449–Automotive Plastic and Sheet Molded Compound Repair .....	4
SPCH 1321–Business and Professional Speech .....	3
*Behavioral or Social Science .....	3
MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	3
	<b>16</b>

## Fourth Term

ABDR 2380–Cooperative Education – Autobody/Collision and Repair Technology/Technician .....	3
ABDR 2502–Auto Body Mechanical and Electrical Service .....	5
ENGL 2311–Technical Report Writing .....	3
*Humanities or Fine Arts .....	3
	<b>14</b>

**Associate of Applied Science Degree Total** **62**  
**Capstone Experience: ABDR 2380**

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

## Automotive Collision Repair Certificate of Technology

### North and South Campuses Only

First Term	Credit
ABDR 1307–Auto Body Welding .....	3
ABDR 1519–Basic Metal Repair .....	5
ABDR 1431–Basic Refinishing .....	4
ABDR 1303–Vehicle Design and Structural Analysis .....	3
	<b>15</b>

### Second Term

ABDR 2541–Major Collision Repair and Panel Replacement .....	5
ABDR 1441–Structural Analysis and Damage Repair I .....	4
ABDR 2353–Color Analysis and Paint Matching .....	3
ABDR 1315–Vehicle Interior Trim and Hardware .....	3
	<b>15</b>

### Third Term

ABDR 1449–Automotive Plastic and Sheet Molded Compound Repair .....	4
ABDR 2380–Cooperative Education – Autobody/Collision and Repair Technology/Technician .....	3
ABDR 2502–Auto Body Mechanical and Electrical Service .....	5
	<b>12</b>

**Certificate of Technology Degree Total** **42**  
**Capstone Experience: ABDR 2380**

## Automotive Non-Collision Repair Certificate of Technology

### North and South Campuses Only

First Term	Credit
ABDR 1519–Basic Metal Repair .....	5
ABDR 1558–Intermediate Refinishing .....	5
ABDR 1431–Basic Refinishing .....	4
	<b>14</b>

### Second Term

ABDR 1555–Minor Metal Repair .....	5
ABDR 1303–Vehicle Design and Structural Analysis .....	3
ABDR 2549–Advanced Refinishing .....	5
	<b>13</b>

**Certificate of Technology Total** **27**  
**Capstone Experience: ABDR 2549**

## Automotive Collision Repair Technology Automotive Painting Speciality Occupational Certificate

### North and South Campuses Only

ABDR 1431–Basic Refinishing .....	4
ABDR 1558–Intermediate Refinishing .....	5
ABDR 2551–Specialized Refinishing Techniques .....	5
ABDR 2549–Advanced Refinishing .....	5
	<b>19</b>

**Occupational Certificate Total:** **19**  
**Capstone Experience: ABDR 2551**

## Automotive Collision Repair Technology Repair Assistant Speciality Occupational Certificate

### North and South Campuses Only

ABDR 1303–Vehicle Design and Structural Analysis .....	3
ABDR 1519–Basic Metal Repair .....	5
ABDR 1307–Auto Body Welding .....	3
ABDR 2541–Major Collision Repair and Panel Replacement .....	5
ABDR 1315–Vehicle Interior Trim and Hardware .....	3
	<b>19</b>

**Occupational Certificate Total:** **19**  
**Capstone Experience: ABDR 2541**

## Technical Programs

### Automotive Collision Repair Technology Management Speciality Associate of Applied Science Degree

#### North and South Campuses Only

First Term	Credit
ABDR 1307—Auto Body Welding .....	3
ABDR 1519—Basic Metal Repair .....	5
ABDR 1431—Basic Refinishing .....	4
ABDR 1303—Vehicle Design and Structural Analysis .....	3
PHED Activity .....	1
	<b>16</b>

#### Second Term

ABDR 2541—Major Collision Repair and Panel Replacement .....	5
ABDR 1441—Structural Analysis and Damage Repair I .....	4
ABDR 1315—Vehicle Interior Trim and Hardware .....	3
ABDR 2353—Color Analysis and Paint Matching .....	3
PHED Activity .....	1
	<b>16</b>

#### Third Term

ENGL 1301—Composition I .....	3
ABDR 1323—Front and Rear Wheel Alignment .....	3
ABDR 2255—Collision Repair Estimating .....	2
MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra .....	3
*Behavioral or Social Science .....	3
	<b>14</b>

#### Fourth Term

ENGL 2311—Technical Report Writing .....	3
ABDR 2502—Auto Body Mechanical and Electrical Service .....	5
ABDR 2257—Collision Repair Shop Management .....	2
SPCH 1321—Business and Professional Speech .....	3
*Humanities or Fine Arts .....	3
	<b>16</b>

#### Associate of Applied Science Degree Total

Capstone Experience: **ABDR 2257**

**62**

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

### Automotive Collision Repair Technology Management Speciality Certificate of Technology

#### North and South Campuses Only

First Term	Credit
ABDR 1307—Auto Body Welding .....	3
ABDR 1519—Basic Metal Repair .....	5
ABDR 1431—Basic Refinishing .....	4
ABDR 1303—Vehicle Design and Structural Analysis .....	3
	<b>15</b>

#### Second Term

ABDR 2541—Major Collision Repair and Panel Replacement .....	5
ABDR 1441—Structural Analysis and Damage Repair I .....	4
ABDR 2353—Color Analysis and Paint Matching .....	3
ABDR 1315—Vehicle Interior Trim and Hardware .....	3
	<b>15</b>

#### Third Term

ABDR 1323—Front and Rear Wheel Alignment .....	3
ABDR 2502—Auto Body Mechanical and Electrical Service .....	5
ABDR 2255—Collision Repair Estimating .....	2
ABDR 2257—Collision Repair Shop Management .....	2
	<b>12</b>

#### Certificate of Technology Total

Capstone Experience: **ABDR 2257**

**42**

## Automotive Technology

### Automotive Technology Associate of Applied Science Degree

#### Central Campus Only

The Automotive Technology Program is designed to prepare its graduates to enter the rapidly changing automotive repair industry. Students will study each automobile system, where they will learn the theory of operation, along with the proper diagnostic procedure to repair a system problem. Each course will have a laboratory session where each student will have an opportunity to practice the concepts and procedures studied in the classroom.

Students are required to furnish a prescribed hand tool set and be prepared to upgrade the required tools as the program progresses. All tuition, fees and textbook costs are the responsibility of the student.

<b>First Term</b>	<b>Credit</b>
AUMT 1305—Introduction to Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
AUMT 1316—Automotive Suspension and Steering Systems.....	3
PHED Activity .....	1
*MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra .....	3
	<b>14</b>

<b>Second Term</b>	
AUMT 1419—Automotive Engine Repair .....	4
AUMT 2311—Automotive Electronic Controls .....	3
AUMT 1310—Automotive Brake Systems .....	3
ENGL 1301—Composition I .....	3
Speech .....	3
	<b>16</b>

<b>Post-Year 1</b>	
<b>Summer Session</b>	
AUMT 1345—Automotive Heating and Air Conditioning .....	3
AUMT Approved Elective .....	3
	<b>6</b>

<b>Third Term</b>	
AUMT 2313—Manual Drive Train and Axles .....	3
AUMT Approved Elective .....	3
**Behavioral or Social Science .....	3
ENGL 2311—Technical Report Writing .....	3
BCIS 1305—Business Computer Applications or ITSC 1309 – Integrated Software Applications I .....	3
	<b>15</b>

<b>Fourth Term</b>	
AUMT 2417—Automotive Engine Performance Analysis I.....	4
AUMT 2425—Automotive Automatic Transmissions and Transaxle .....	4
**Humanities or Fine Arts .....	3
PHED Activity .....	1
	<b>12</b>
<b>Associate of Applied Science Degree Total</b>	<b>63</b>

Approved Electives:  
AUMT 2455, AUMT 2349, AUMT 2388, AUMT 2340, AUMT 2371

**Capstone Experience: AUMT 2388 or National A.S.E. Certification Exams**

\* Remedial courses (those courses beginning with 0) do not apply toward the associate degree.

\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

## Automotive Technology Certificate of Technology

### Central Campus Only

Automotive Technology Certificate of Technology is a one-year certificate program designed for students who would like to get a job as an automotive diagnostic technician in a short period of time. Students working toward this certificate would be restricted to taking only those automotive courses listed in the outline below. Upon completion of the required courses, students are eligible to participate in graduation exercises with degree students. If students decide to continue their education afterward, the courses may then be applied toward an Associate of Applied Science Degree.

	<b>Credit</b>
AUMT 1305—Introduction to Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
AUMT 1316—Automotive Suspension and Steering Systems.....	3
AUMT 2311—Automotive Electronic Controls .....	3
AUMT 1310—Automotive Brake Systems .....	3
AUMT 1419—Automotive Engine Repair .....	4
AUMT 1345—Automotive Heating and Air Conditioning .....	3
AUMT 2313—Automotive Drive Train and Axles .....	3
AUMT—Approved Elective .....	3
AUMT 2425—Automotive Automatic Transmission and Transaxle .....	4
AUMT 2417—Engine Performance Analysis.....	4
<b>Certificate of Technology Total</b>	<b>37</b>
<b>Capstone Experience: AUMT 2388 or National A.S.E. Certification Exams</b>	

Approved Electives:

AUMT 2455, AUMT 2349, AUMT 2388, AUMT 2340, AUMT 2371

## Automotive Technology Maintenance and Light Repair\* Certificate of Technology

### Central Campus Only

The Maintenance and Light Repair Certificate of Technology is a one-year certificate program designed for students who would like to get jobs in the express lube service field working for a major automotive manufacturer such as Ford, GM, Toyota, Honda, or specialty shops such as Jiffy Lube. Students working toward this certificate would be restricted to taking only those courses listed in the outline below. Upon completion of the required courses, students are eligible to participate in graduation exercises with degree students. If students decide to continue their education, the courses may then be applied toward an Associate of Applied Science Degree.

# Technical Programs

## First Term

	Credit
AUMT 1305—Introduction to Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology Technician .....	3
BCIS 1305—Business Computer Applications or ITSC 1309—Integrated Software Applications I .....	3
	<b>13</b>

## Second Term

AUMT 1310—Automotive Brake Systems .....	3
AUMT 1316—Automotive Suspension and Steering Systems.....	3
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
	<b>9</b>

## Mini Term (Summer)

AUMT 1345—Automotive Heating and Air Conditioning .....	3
	<b>3</b>

**Maintenance and Light Repair Certificate Total** **25**

**Capstone Experience:** AUMT 2388 or National A.S.E.  
Certification Exams

\* Students enrolling in the Maintenance and Light Repair Certificate of Technology program must be sponsored by an approved automotive dealer or fleet repair facility and maintain all employment requirements. Students completing all approved courses with a Honda emphasis will receive a certificate of technology.

## Automotive Technician Trainee – Under Car\* Certificate of Technology

### Central Campus Only

The Automotive Technician Trainee-Under Car Certificate of Technology is a one-year certificate program designed for students who would like to get jobs diagnosing and repairing of transmissions, drive lines, suspension and steering, and brake systems. Students working toward this certificate would be restricted to taking only those automotive courses listed in the outline below. Upon completion of the required courses, students are eligible to participate in graduation exercises with degree students. If students decide to continue their education, the courses may then be applied toward an Associate of Applied Science Degree.

	Credit
AUMT 1305—Introduction to Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
AUMT 1316—Automotive Suspension and Steering Systems.....	3
AUMT 1310—Automotive Brake Systems .....	3
AUMT 2313—Automotive Manual Drive Train and Axles.....	3
AUMT 2417—Automotive Engine Performance Analysis I.....	4
AUMT 2425—Automotive Automatic Transmission and Transaxle.....	4
<b>Under Car Certificate of Technology Total</b>	<b>24</b>
<b>Capstone Experience:</b> National A.S.E. Certification Exams	

\* Students enrolling in the Automotive Technician Trainee—Under Car Certificate of Technology program may choose to specialize with a Honda emphasis in approved courses (AUMT 1407, AUMT 2425, AUMT 2413, AUMT 1416, AUMT 1410 and AUMT 2417). Students completing all approved courses with a Honda emphasis will receive a certificate of technology.

## Automotive Technician Trainee – Under Hood\* Certificate of Technology

### Central Campus Only

The Automotive Technician Trainee—Under Hood Certificate of Technology is a one-year certificate designed for students who would like to get jobs diagnosing and repairing of automotive electrical and electronic control systems, and heating and air conditioning systems. Students will also learn how to use basic engine performance diagnostic equipment and machines used in precision engine rebuilding, cylinder reconditioning, and crack repair. Students working toward this certificate would be restricted to taking only those automotive courses listed in the outline below. Upon completion of the required courses, students are eligible to participate in graduation exercises with degree students. If students decide to continue their education, the courses may then be applied toward an Associate of Applied Science Degree.

	Credit
AUMT 1305—Introduction to Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
AUMT 1419—Automotive Engine Repair .....	4
AUMT 2311—Automotive Electronic Controls .....	3
AUMT 1345—Automotive Heating and Air Conditioning .....	3
AUMT 2417—Automotive Engine Performance Analysis I.....	4
AUMT 2455—Automotive Engine Machining.....	4
<b>Under Hood Certificate of Technology Total</b>	<b>25</b>
<b>Capstone Experience:</b> National A.S.E. Certification Exams	

\* Students enrolling in the Automotive Technician Trainee—Under Hood Certificate of Technology program may choose to specialize with a Honda emphasis in approved courses (AUMT 1405, AUMT 1407, AUMT 1419, AUMT 2417, AUMT 2455, and AUMT 1445). Students completing all approved courses with a Honda emphasis will receive a certificate of technology.

## Automotive Machinist Certificate of Technology

### Central Campus Only

Students enrolled in the Automotive Machinist Certificate of Technology Program receive training that prepares them for employment in area machine shops. Students study the skills necessary to perform machining and repair operations to small and large internal combustion power plants, including gasoline and diesel applications. Students working toward this certificate are restricted to taking only those courses listed in the outline below. Upon completion of the required courses, students are eligible to participate in

graduation exercises with degree students. If students decide to continue their education, the courses may then be applied toward an Associate of Applied Science Degree.

	<b>Credit</b>
AUMT 1305—Introduction to Automotive Technology.....	3
AUMT 1419—Automotive Engine Repair.....	4
WLDG 1534—Introduction to Gas Tungsten Arc (GTAW) Welding.....	5
AUMT 2455—Automotive Engine Machining.....	4
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician.....	3
WLDG 2551—Advanced Gas Tungsten Arc (GTAW) Welding.....	<u>5</u>
<b>Machinist Certificate of Technology Total</b>	<b>24</b>
<b>Capstone Experience: National A.S.E. Certification Exams</b>	

## AC Delco

### Technical Service Educational Program (TSEP) Associate of Applied Science Degree

#### Central Campus Only

#### Program Not offered After Fall 2006 (200710)

The AC Delco Technical Service Educational Program is a two-year automotive program designed to update the technical competence and professional level of the technician. The curriculum has been co-designed by AC Delco and San Jacinto Community College District to lead to an Associate of Applied Science Degree in Automotive Technology. The program requires students to work at AC Delco TSS repair facilities as well as attend San Jacinto Community College District classroom lectures and laboratory classes, where they will work on donated training vehicles.

Each student must furnish a prescribed basic hand-tool set and be prepared to upgrade required tools as the program progresses. All tuition, fees, and textbook costs are the responsibility of the student. Interested students should contact the College Automotive Technology Department for an information packet. Registration for beginning students is limited to the fall term of each year.

#### Program Criteria

All candidates registering for the program at San Jacinto Community College District must apply in the Automotive Department Office and be approved by the Automotive Department chair. The following are basic criteria for acceptance:

1. Students must be sponsored by an AC Delco dealership.
2. Students must maintain sponsorship of the AC Delco dealership to avoid being withdrawn from AC Delco TSEP classes.

3. Students unable to adhere to the AC Delco TSEP degree plan will be placed on departmental probation.
4. Students placed on departmental probation are required to meet with the Automotive Department chair prior to registering for the next term. Students will submit an action plan to the Automotive Department chair identifying course deficiencies during the following term(s). The department chair must approve all Actions.
5. Students failing to enroll in and successfully complete the classes submitted in the approved action plan will be withdrawn from AC Delco TSEP classes.
6. Students enrolled in AC Delco TSEP must have a valid driver's license and be insurable.
7. Students enrolled in AC Delco TSEP must wear a dealer-provided uniform when working at the dealership and when attending AC Delco TSEP classes.

#### First Term

	<b>Credit</b>
AUMT 1305—Introduction to Automotive Technology.....	3
AUMT 1407—Automotive Electrical Systems.....	4
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician.....	3
MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra.....	3
PHED Activity.....	<u>1</u>
	<b>14</b>

#### Second Term

AUMT 2417—Automotive Engine Performance Analysis I.....	4
AUMT 1316—Automotive Suspension and Steering Systems.....	3
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician.....	3
ENGL 1301—Composition I.....	3
SPCH—Speech.....	<u>3</u>
	<b>16</b>

#### Post-Year 1

##### Summer Session

	<b>Credit</b>
AUMT 1310—Automotive Brake Systems.....	3
AUMT 1345—Automotive Air Conditioning and Heating.....	<u>3</u>
	<b>6</b>

#### Third Term

AUMT 2311—Automotive Electronic Controls.....	3
AUMT 2417—Automotive Engine Performance Analysis I.....	4
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician.....	3
ENGL 2311—Technical Report Writing.....	3
*Behavioral or Social Science.....	<u>3</u>
	<b>16</b>

# Technical Programs

## Fourth Term

AUMT 2313–Automotive Drive Train and Axles .....	3
AUMT 2425–Automotive Automatic Transmission and Transaxles .....	4
AUMT 2388– Internship–Automobile/Automotive Mechanics Technology/Technician .....	3
PHED Activity .....	1
*Humanities or Fine Arts .....	3
	<b>14</b>

**Associate of Applied Science Degree Total** **66**

**Capstone Experience:** **AUMT 2388 or National A.S.E.  
Certification Exams**

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

## AC Delco – Technical Service Educational Program (TSEP)

### Certificate of Technology

#### Central Campus Only

This is a one-year certificate program designed for students who would like to get a job as an automotive diagnostic technician for AC Delco in a short period of time. Students working toward this certificate would be restricted to taking only those automotive courses listed in the outline below. Upon completion of the required courses, students are eligible to participate in graduation exercises with degree students. Should students decide to continue their education afterward, the courses may then be applied toward an Associate of Applied Science Degree.

	<b>Credit</b>
AUMT 1305–Introduction to Automotive Technology .....	3
AUMT 1407–Automotive Electrical Systems .....	4
AUMT 2388–Internship–Automobile/Automotive Mechanics Technology/Technician .....	3
AUMT 1316–Automotive Steering and Suspension .....	3
AUMT 1419–Automotive Engine Repair .....	4
AUMT 2388– Internship–Automobile/Automotive Mechanics Technology/Technician .....	3
AUMT 1310–Automotive Brake Systems .....	3
AUMT 1345–Automotive Heating and Air Conditioning .....	3
AUMT 2311–Automotive Electronic Controls .....	3
AUMT 2417–Engine Performance Analysis I .....	4
AUMT 1280–Coop. Educ.-Auto/Automotive Mechanic/Tech .....	2
AUMT 2313–Automotive Drive Train and Axles .....	3
AUMT 2425–Automotive Automatic Transmission and Transaxle .....	4
<b>Certificate of Technology Total</b>	<b>42</b>

**Capstone Experience:** **AUMT 2388 or National A.S.E.  
Certification Exams**

## College Automotive Program (CAP)

### DaimlerChrysler

#### Associate of Applied Science

#### Central Campus Only

The DaimlerChrysler College Automotive Program is a two-year automotive program designed to update the technical and professional level of the incoming dealership technician. The curriculum has been co-designed by DaimlerChrysler and San Jacinto Community College District to lead to an Associate of Applied Science Degree in Automotive Technology. The program requires students to work at a DaimlerChrysler dealership (Chrysler, Dodge, Jeep) as well as attend San Jacinto Community College District classroom and laboratory classes where they will work on DaimlerChrysler products.

Each student must furnish a prescribed set of hand tools and be prepared to upgrade required tools as the program progresses. All tuition, fees, and textbook costs are the responsibility of the student. Interested students should visit [www.sanjac.edu/central/auto\\_tech/](http://www.sanjac.edu/central/auto_tech/) and fill out the electronic application or contact the Automotive Technology Department. Registration for classes is limited to the fall term each year.

#### Program Criteria

All candidates registering for the DaimlerChrysler CAP program at San Jacinto Community College District must apply electronically at [www.sanjac.edu/central/auto\\_tech/](http://www.sanjac.edu/central/auto_tech/) or contact the Automotive Technology Department in order to be added to the prospective student list and be approved by the Automotive Department Chair.

1. Students who are not sponsored by a Chrysler, Dodge or Jeep dealership will not be allowed to register.
2. Students must have a reading, writing and math skill level of 7-7-7 by the start of the program. Candidates not meeting the 7-7-7 skill level will require special action plans and advisement by the Automotive Department Chair.
3. Students must maintain sponsorship of the DaimlerChrysler dealership to avoid being withdrawn from the DaimlerChrysler CAP classes.
4. Students unable to adhere to the DaimlerChrysler CAP degree plan will be put on departmental probation.
5. Students put on departmental probation are required to meet with the Automotive Department Chair to discuss an action plan prior to registering for the next semester.

Students will submit an action plan to the Automotive Programs Manager identifying course deficiencies and a strategy for correcting these deficiencies during the following term(s). The Programs Manager must approve all action plans.

6. Students failing to enroll in and successfully complete classes submitted in the approved action plan will be withdrawn from DaimlerChrysler CAP classes.
7. Students enrolled in DaimlerChrysler classes must have a valid driver's license and be insurable.
8. Students enrolled in DaimlerChrysler CAP must wear the dealer-provided uniform and be neatly groomed when working at the dealership and when attending all college classes.

<b>First Term</b>	<b>Credit</b>
AUMT 1305–Introduction to Automotive Technology .....	3
AUMT 1407–Automotive Electrical Systems .....	4
AUMT 2388–Internship–Automobile/Automotive Mechanics Technology/Technician .....	3
MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	3
PHED Activity .....	1
	<b>14</b>
<b>Second Term</b>	
AUMT 1419–Automotive Engine Repair .....	4
AUMT 2311–Automotive Electronic Controls .....	3
AUMT 2388–Internship–Automobile/Automotive Mechanics Technology/Technician .....	3
ENGL 1301–Composition I .....	3
Speech .....	3
	<b>16</b>
<b>First Summer Term</b>	
AUMT 1345–Automotive Heating and Air Conditioning .....	3
AUMT 2313–Automotive Drive Train and Axles .....	3
AUMT 1280–Cooperative Education–Automobile/Automotive Mechanics Technology/Technician .....	2
	<b>8</b>
<b>Third Term</b>	
AUMT 1316–Automotive Suspension and Steering Systems.....	3
AUMT 2417–Automotive Engine Performance Analysis I.....	4
AUMT 2388–Internship–Automobile/Automotive Mechanics Technology/Technician .....	3
ENGL 2311–Technical Report Writing.....	3
*Behavioral or Social Science .....	3
	<b>16</b>

<b>Fourth Term</b>	
AUMT 1310–Automotive Brake Systems .....	3
AUMT 2425–Automotive Automatic Transmission and Transaxle .....	4
AUMT 2388–Internship–Automobile/Automotive Mechanics Technology/Technician .....	3
PHED Activity .....	1
*Humanities or Fine Arts .....	3
	<b>14</b>

**Associate of Applied Science Total** **68**  
**Remedial courses (those courses beginning with 0) do not apply toward the associate degree.**

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

**Capstone Experience:** **AUMT 2388 or National A.S.E. Certification Exams**

## Honda Professional Automotive Career Training (PACT) Associate of Applied Science Degree

### Central Campus Only

The Honda Professional Automotive Career Training Program is a two-year automotive program designed to teach technical competence and professional level skills to incoming technicians. The curriculum has been co-designed by Honda and San Jacinto Community College District to lead to an Associate of Applied Science Degree in Automotive Technology. The program requires the student to work at a Honda repair facility as well as attend San Jacinto Community College District classroom and laboratory classes, where the student will work on donated training vehicles. Each student must furnish a prescribed basic hand-tool set and be prepared to upgrade the required tools as the program progresses. All tuition, fees and textbook costs are the responsibility of the student. Interested students should contact the college Automotive Technology Department for an information packet. Registration for beginning students is limited to the fall term of each year.

### Program Criteria

All candidates registering for the program at San Jacinto Community College District must apply in the Automotive Technology Department and be approved by the Automotive Department Chair.

1. Students who are not sponsored by a Honda dealership will not be allowed to register for Honda PACT classes.
2. Students must maintain sponsorship by the Honda dealership to avoid being withdrawn from Honda PACT classes.

3. Students unable to adhere to the Honda PACT degree plan will be placed on departmental probation.
4. Students placed on department probation are required to meet with the Automotive Department Chair to discuss an action prior to registering for the next term. Students will submit an action to the Automotive Department Chair identifying course deficiencies during the following term(s). The Automotive Department Chair must approve action plans.
5. Students failing to enroll in and successfully complete the classes submitted in the approved Action will be withdrawn from Honda PACT classes.
6. Students enrolled in Honda PACT must have a valid driver's license and be insurable.
7. Students enrolled in the Honda PACT must wear the dealer- provided uniform when working at the dealership and when attending Honda PACT classes.

First Term	Credit
AUMT 1305—Introduction to Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
*MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra .....	3
BCIS 1305—Business Computer Applications or ITSC 1309—Integrated Software Applications I .....	3
PHED Activity .....	1
	<b>14</b>

Second Term	
AUMT 1419—Automotive Engine Repair .....	4
AUMT 2311—Automotive Electronic Controls .....	3
AUMT 2321—Automotive Electrical and Lighting Accessories .....	3
ENGL 1301—Composition I .....	3
Speech .....	3
	<b>16</b>

### Post-Year 1

#### Summer Session

AUMT 1316—Automotive Suspension and Steering Systems .....	3
AUMT 1345—Automotive Heating and Air Conditioning .....	3
	<b>6</b>

#### Third Term

AUMT 2313—Automotive Drive Train and Axles .....	3
AUMT 2417—Automotive Engine Performance Analysis I .....	4
AUMT 2388— Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
ENGL 2311—Technical Report Writing .....	3
*Behavioral or Social Science .....	3
	<b>16</b>

#### Fourth Term

AUMT 1310—Automotive Brake Systems .....	3
AUMT 2425—Automotive Automatic Transmission and Transaxle .....	4
AUMT 2388— Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
*Humanities or Fine Arts .....	3
PHED Activity .....	1
	<b>14</b>

#### Associate Degree Total

**66**

**Remedial courses (those courses beginning with 0) do not apply toward the associate degree.**

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*

**Capstone Experience: AUMT 2388 or National A.S.E. Certification Exam**

## Honda Professional Automotive Career Training (PACT) Certificate of Technology

### Central Campus Only

This is a one-year certificate program designed for students who would like to get a job as an automotive diagnostic technician for Honda in a short period of time. Students working toward this certificate are restricted to taking only those automotive courses listed in the outline below. Upon completion of the required courses, students are eligible to participate in graduation exercises with degree students. Should students decide to continue their education, the courses may then be applied toward an Associate of Applied Science Degree.

	Credit
AUMT 1305—Introduction to Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
AUMT 2311—Automotive Electronic Controls .....	3
AUMT 1419—Automotive Engine Repair .....	4
AUMT 2321—Automotive Electrical and Lighting Accessories .....	3
AUMT 1345—Automotive Heating and Air Conditioning .....	3
AUMT 1316—Automotive Suspension and Steering Systems .....	3
AUMT 1310—Automotive Brake Systems .....	3
AUMT 2313—Manual Drive Train and Axles .....	3
AUMT 2313—Automotive Drive Train and Axles .....	3
AUMT 1280—Cooperative Education/Automobile/Automotive Mechanics Technology/Technician .....	2
AUMT 2388— Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
AUMT 2417—Automotive Engine Performance Analysis I .....	4
AUMT 2425—Automatic Transmission and Transaxle .....	4
<b>Certificate of Technology Total</b>	<b>42</b>

**Capstone Experience:** AUMT 2388 or National A.S.E. Certification Exams

*\* Remedial courses (those courses beginning with 0) do not apply toward the associate degree.*

## Honda Professional Automotive Career Training (PACT) Maintenance and Light Repair Certificate of Technology

The Honda Professional Automotive Career Training Maintenance and Light Repair Program is a one-year certificate program designed for students who would like work in the express lube service field for a Honda dealership. Students working toward this certificate are restricted to taking only those courses listed in the outline below. Upon completion of the required courses, students are eligible to participate in graduation exercises with degree students. Should students decide to continue their education, the courses may then be applied toward an Associate of Applied Science Degree.

<b>First Term</b>	<b>Credit</b>
AUMT 1305—Introduction to Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
AUMT 2388— Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
BCIS 1305—Business Computer Applications or ITSC 1309—Integrated Software Applications I .....	3
	<b>13</b>
 <b>Second Term</b>	
AUMT 1310—Automotive Brake Systems .....	3
AUMT 1316—Automotive Suspension and Steering Systems.....	3
AUMT 2388— Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
	<b>9</b>
 <b>Mini Term (Summer)</b>	
AUMT 1345—Automotive Heating and Air Conditioning .....	3
	<b>3</b>
<b>Certificate of Technology Total</b>	<b>25</b>
 <b>Capstone Experience: AUMT 2388 or National A.S.E. Certification Exams</b>	

**Approved Electives:**  
AUMT 1281      AUMT 1381

*\* Students enrolling in the Maintenance and Light Repair Certificate of Technology program must be sponsored by an approved automotive dealer or fleet repair facility and maintain all employment requirements.*

## Ford Motor Company Automotive Student Service Educational Training Ford Speciality Associate of Applied Science Degree

### Central Campus Only

Ford Motor Company Automotive Student Service Educational Training is a two-year automotive program designed to teach technical competency skills and professionalism for the incoming technician. The curriculum is designed by Ford and San Jacinto Community College District and leads to an Associate of Applied Science Degree in Automotive Technology. The program requires students to work at Ford or Lincoln/Mercury dealerships as well as attend San Jacinto Community College District classroom and laboratory classes, where they will work on donated training vehicles.

Each student must furnish a prescribed basic hand-tool set and be prepared to upgrade required tools as the program progresses. All tuition, fees, and textbook costs are the responsibility of the student. Interested students should contact the College Automotive Technology Department for an information packet. Registration for beginning students is limited to the fall term of each year.

### Program Criteria:

All candidates registering for the Ford ASSET program at San Jacinto Community College District must apply in the Automotive Technology Department and be approved by the Automotive Department Chair.

1. Students who are not sponsored by a Ford ASSET dealership will not be allowed to register for Ford ASSET classes.
2. Students must maintain sponsorship by the Ford dealership to avoid being withdrawn from Ford ASSET classes.
3. Students unable to adhere to the Ford ASSET degree plan will be placed on departmental probation.
4. Students placed on departmental probation are required to meet with the Automotive Department Chair to discuss an action plan prior to registering for the next term. Students will submit an action plan to the Automotive Department Chair, identifying course deficiencies during the following term(s). The Automotive Department Chair must approve all action plans.
5. Students failing to enroll in and successfully complete the classes submitted in the approved action plan will be withdrawn from Ford ASSET classes.
6. Students enrolled in Ford ASSET must have a valid driver's license and be insurable.

# Technical Programs

7. Students enrolled in Ford ASSET must wear a dealer-provided uniform when working at the dealership and when attending Ford ASSET classes.

First Term	Credit
AUMT 1305—Introduction to Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
*MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra .....	3
PHED Activity .....	1
	<b>14</b>

Second Term	
AUMT 1419—Automotive Engine Repair .....	4
AUMT 2311—Automotive Electronic Controls .....	3
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
ENGL 1301—Composition I .....	3
Speech .....	3
	<b>16</b>

### Post-Year 1

#### Summer Session

AUMT 1345—Automotive Heating and Air Conditioning .....	3
AUMT 2313—Automotive Drive Train and Axles .....	3
AUMT 1280—Cooperative Education—Automotive/Automobile -Mechanics Technology/Technician .....	2
	<b>8</b>

#### Third Term

AUMT 1310—Automotive Braking Systems .....	3
AUMT 2417—Automotive Engine Performance Analysis I.....	4
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
ENGL 2311—Technical Report Writing .....	3
**Behavioral or Social Science .....	3
	<b>16</b>

#### Fourth Term

AUMT 1316—Automotive Suspension and Steering Systems.....	3
AUMT 2425—Automotive Automatic Transmission and Transaxle .....	4
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology Technician .....	3
PHED Activity .....	1
**Humanities or Fine Arts .....	3
	<b>14</b>

#### Associate of Applied Science Degree Total

Capstone Experience: **AUMT 2388 or National A.S.E.  
Certification Exams**

\* Remedial courses (those courses beginning with 0) do not apply toward the associate degree.

\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

## Automotive Technology – Ford Speciality Maintenance and Light Repair Occupational Certificate\*

### Central Campus Only

The Ford Motor Company Maintenance and Light Repair Occupational Certificate is a one-term occupational certificate program for students who would like to work in the express lube service field for a Ford Motor Company dealership. Students working toward this certificate are restricted to taking only those courses listed in the outline below. Should students decide to continue their education, the courses may then be applied toward a certificate of technology or an associate of applied science degree.

	Credit
AUMT 1305—Introduction of Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
AUMT 1310—Automotive Braking Systems .....	3
AUMT 1316—Automotive Suspension and Steering.....	3
AUMT 1345—Automotive Heating and Air Conditioning .....	3
<b>Ford Maintenance and Light Repair Certificate Total</b>	<b>16</b>
<b>Capstone Experience: National A.S.E. Certification Exams</b>	

\*Students enrolling in the Maintenance and Light Repair Occupational Certificate Program must be sponsored by an approved automotive Ford dealer or fleet repair facility and maintain all employment requirements.

At registration students will be required to pay \$350 to Ford Motor Company for books and administrative fees.

## General Motors Automotive Service Educational Program Associate of Applied Science Degree

### Central Campus Only

The General Motors Automotive Service Educational Program is a two-year automotive program designed to teach technical competence and professional level skills to incoming technicians. The curriculum has been co-designed by General Motors and San Jacinto Community College District to lead to an Associate of Applied Science Degree in Automotive Technology. The program requires students to work at General Motors dealerships, as well as attend San Jacinto Community

College District classroom and laboratory classes where they will work on General Motors' products.

Each student is required to furnish a prescribed basic hand-tool set and be prepared to upgrade required tools as the program progresses. All tuition, fees, and textbook costs are the responsibility of the student. Interested students should contact the Automotive Technology Department for an information packet. Registration for beginning students is limited to the fall term of each year.

### Program Criteria

All candidates registering for the GM ASEP program at San Jacinto Community College District must apply in the Automotive Technology Department Office and be approved by the department chair.

1. Students who are not sponsored by a GM dealership will not be allowed to register for GM ASEP classes.
2. Students must maintain sponsorship of the GM dealership to avoid being withdrawn from GM ASEP classes.
3. Students unable to adhere to the GM ASEP degree plan will be placed on departmental probation.
4. Students placed on departmental probation are required to meet with the Automotive Department Chair to discuss an action plan prior to registering for the next term. Students will submit an action plan to the Automotive Department Chair identifying course deficiencies and a strategy for correcting these deficiencies during the following term(s). The department chair must approve all action plans.
5. Students failing to enroll in and successfully complete the classes submitted in the approved action plan will be withdrawn from GM ASEP classes.
6. Students enrolled in GM ASEP must have and maintain a valid driver's license and be insurable.
7. Students enrolled in GM ASEP must wear a dealer-provided uniform when working at the dealership and when attending GM ASEP classes.

First Term	Credit
AUMT 1305—Introduction to Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
*MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra .....	3
PHED Activity .....	1
	<b>14</b>

### Second Term

AUMT 1419—Automotive Engine Repair .....	4
AUMT 2311—Automotive Electronic Controls .....	3
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
ENGL 1301—Composition I .....	3
Speech .....	3
	<b>16</b>

### Post-Year 1

#### Summer Session

AUMT 1345—Automotive Heating and Air Conditioning .....	3
AUMT 2313—Automotive Manual Drive Train and Axles .....	3
AUMT 1280—Cooperative Education—Automobile/ Automotive . Mechanics Technology/Technician .....	2
	<b>8</b>

### Third Term

AUMT 1316—Automotive Suspension and Steering Systems .....	3
AUMT 2417—Automotive Engine Performance Analysis I .....	4
AUMT 2388—Internship—Auto/Automotive Mechanic/ Technician .....	3
ENGL 2311—Technical Report Writing .....	3
**Behavioral or Social Science .....	3
	<b>16</b>

### Fourth Term

AUMT 1310—Automotive Brake Systems .....	3
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
AUMT 2425—Automatic Transmission and Transaxle .....	4
PHED Activity .....	1
**Humanities or Fine Arts .....	3
	<b>14</b>

### Associate of Applied Science Degree Total

**Capstone Experience: AUMT 2388 or National A.S.E.  
Certification Exams**

**68**

*\* Remedial courses (those courses beginning with 0) do not apply toward the associate degree.*

*\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

## Automotive Technology

### Toyota Technical Education Network (TTEN)

#### Associate of Applied Science Degree

### Central Campus Only

The Toyota Technical Education Network Program is a two-year automotive program designed to teach technical competence and professional level skills to incoming dealership technicians. The curriculum has been designed by Toyota Motors, Inc./Lexus and San Jacinto Community College District to lead to an Associate of Applied Science

Degree in Automotive Technology. The program requires the student to work at a Toyota/Lexus repair facility, as well as attend San Jacinto Community College District classroom and laboratory classes where the student will work on donated training vehicles.

Each student must furnish a prescribed basic hand-tool set and be prepared to upgrade required tools as the program progresses. All tuition, fees, and textbook costs are the responsibility of the student. Interested students should contact the College Automotive Technology Department for an information packet. Registration for beginning students is limited to the fall term of each year.

### Program Criteria

All candidates registering for the Toyota TTEN program at San Jacinto Community College District must apply in the Automotive Technology Department Office and be approved by the department chair.

1. Students who are not sponsored by a Toyota or Lexus dealership will not be allowed to register for Toyota TTEN classes.
2. Students must maintain sponsorship of the Toyota or Lexus dealership to avoid being withdrawn from Toyota TTEN classes.
3. Students unable to adhere to the Toyota TTEN degree plan will be placed on departmental probation.
4. Students placed on departmental probation are required to meet with the Automotive Department Chair to discuss an action plan prior to registering for the next term. Students will submit an Action to the Automotive Technology Department chair identifying course deficiencies and a strategy for correcting these deficiencies during the following term(s). The department chair must approve all action plans.
5. Students failing to enroll in and successfully complete the classes submitted in the approved action plan will be withdrawn from Toyota TTEN classes.
6. Students enrolled in Toyota TTEN must maintain a valid driver's license and be insurable.
7. Students enrolled in Toyota TTEN must wear the dealer-provided uniform when working at the dealership and when attending Toyota TTEN classes.

First Term	Credit
AUMT 1305—Introduction to Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
*MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra .....	3
BCIS 1305—Business Computer Applications or ITSC 1309—Integrated Software .....	3
PHED Activity .....	1
	<b>14</b>

Second Term	
AUMT 1419—Automotive Engine Repair .....	4
AUMT 2311—Automotive Electronic Controls .....	3
ENGL 1301—Composition I .....	3
Speech .....	3
	<b>16</b>

### Post Year 1

#### Summer Session

AUMT 1316—Automotive Suspension and Steering Systems .....	3
AUMT 1345—Automotive Heating and Air Conditioning .....	3
	<b>6</b>

#### Third Term

AUMT 1310—Automotive Brake Systems .....	3
AUMT 2425—Automotive Transmission and Transaxle .....	4
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
ENGL 2311—Technical Report Writing .....	3
**Behavioral or Social Science .....	3
	<b>16</b>

#### Fourth Term

AUMT 2313—Automotive Drive Train and Axles .....	3
AUMT 2417—Automotive Engine Performance Analysis I .....	4
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
PHED Activity .....	1
**Humanities or Fine Arts .....	3
	<b>14</b>

<b>Associate of Applied Science Degree Total</b>	<b>66</b>
<b>Capstone Experience: AUMT 2388 or National A.S.E. Certification Exams</b>	

\* Remedial courses (those beginning with 0) do not apply toward the associate degree.  
\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

## Automotive Technology

### Toyota Technical Education Network (TTEN) Certificate of Technology

#### Central Campus Only

The Toyota Technical Education Network Certificate of Technology Program is designed for students who would like to work as a Toyota diagnostic technician in a shorter period of time. Students working toward this certificate are restricted to taking only those automotive courses listed in the outline below. Upon completion of the required courses, students are eligible to participate in graduation exercises

with degree students. Should students decide to continue their education, the courses may then be applied toward an Associate of Applied Science Degree.

<b>First Term</b>	<b>Credit</b>
AUMT 1305—Introduction to Automotive Technology .....	3
AUMT 1407—Automotive Electrical Systems .....	4
	<u>7</u>
<b>Second Term</b>	
AUMT 2311—Automotive Electronic Controls .....	3
AUMT 2321—Automotive Electrical Lighting and Accessories .....	3
AUMT 1419—Automotive Engine Repair .....	4
	<u>10</u>
<b>Third Term</b>	
AUMT 1345—Automotive Heating and Air Conditioning .....	3
AUMT 1316—Automotive Suspension and Steering Systems .....	3
	<u>6</u>
<b>Fourth Term</b>	
AUMT 1310—Automotive Brake Systems .....	3
AUMT 2425—Automotive Automatic Transmission and Transaxle .....	3
AUMT 1280—Cooperative Education—Automobile/Automotive Mechanics Technology/Technician .....	2
	<u>9</u>
<b>Fifth Term</b>	
AUMT 2313—Automotive Manual Drive Train and Axles .....	3
AUMT 2417—Automotive Engine Performance Analysis I .....	4
AUMT 2388—Internship—Automobile/Automotive Mechanics Technology/Technician .....	3
	<u>10</u>
<b>Certificate of Technology Total</b>	<b>42</b>
<b>Capstone Experience:</b> AUMT 2388 or National A.S.E. Certification Exam	

**Note:** Students enrolling in this certificate must pass the Mechanical Aptitude Test and pass an interview with the lead Toyota/Lexus instructor.

## Business Management

### All Campuses

Business Management is a two-year supervisory training program that combines classroom management theory with practical on-the-job training. The program leads to the Associate of Applied Science Degree in Business Management. The Business Management curriculum includes courses designed to provide a practical, comprehensive program covering certain managerial activities. The program is designed to meet the needs of people preparing for careers in business and industry such as retailing, wholesaling, in-

dustrial management, small business, and human resources. The Business Management Program supports the theory that there is no substitute for world-of-work experience in the learning process. Management course work includes studies in basic principles of management, human relations, group dynamics, motivation of individuals and groups, leadership development, organization of work and people, study of supervisory functions, and many other management interests, including international business and trade.

### A Contemporary Approach to Management Training

Concurrent with the Business Management courses, the Supervision major or the Small Business Entrepreneur major is required to take a practicum which coordinates job training with classroom theory. One of the requirements of the practicum course is that a student work a minimum of 20 hours per week at a training station approved by a Business Management coordinator. Designed as a development tool, the practicum requires that the Business Management coordinator, the employer, and the student agree on a tentative training outline or personal development plan which, according to specific guidelines, must improve, enhance, and demonstrate personal and professional managerial skills of the student at work.

**Note:** Students taking the practicum courses should be counseled by a Business Management coordinator or the department chair prior to registration. BMGT 2368 can be taken more than once for credit; consequently, the credit for this course, when taken more than once, may be applied toward the certificate of technology and toward the degree. This practicum helps the student receive practical training and experience compatible with his or her management career objective.

### Supervision Option

#### Associate of Applied Science Degree

### All Campuses

The Associate of Applied Science Degree in Business Management is an accelerated two-year supervisory training program for people preparing for careers in business management. Students pursuing a bachelor's degree should see a counselor or the Business Department chair or associate dean prior to registration.

<b>First Term</b>	<b>Credit</b>
BCIS 1305—Computer Applications or .....	3
HRPO 1311—Human Relations .....	3
BMGT 1301—Supervision .....	3
BMGT 1313—Principles of Purchasing .....	3
BUSI 1311—Salesmanship .....	3
*Humanities or Fine Arts .....	3

**18**

# Technical Programs

## Second Term

BMGT 1303—Principles of Management .....	3
BMGT 1331—Production and Operations Management .....	3
BMGT 1325—Office Management .....	3
BMGT 2368—Field Experience (Practicum).....	3
HRPO 2301—Human Resources Management .....	3
	<b>15</b>

## Third Term

ENGL 1301—Composition I .....	3
PHED Activity .....	1
SPCH 1315—Public Speaking or SPCH 1321—Business and Professional Speech .....	3
BMGT 2368—Field Experience (Practicum).....	3
Psychology or Sociology .....	3
MATH 1333—Contemporary Mathematics for Technical Programs .....	3
	<b>16</b>

## Fourth Term

ACNT 1303—Introduction to Accounting I or ACCT 2301—Accounting Principles I .....	3
BUSI 2304—Business Communications.....	3
ENGL 2311—Technical Report Writing .....	3
MRKG 1311—Principles of Marketing.....	3
BMGT 2368—Field Experience (Practicum).....	3
PHED Activity .....	1
	<b>16</b>

**Associate of Applied Science Degree Total** **65**

**Capstone Experience: BMGT 2368**

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*

## Supervision

### Certificate of Technology

#### All Campuses

The Supervision Certificate of Technology Program is designed for students who desire to earn a credential after one year of study. All courses required for the Certificate of Technology apply toward an Associate of Applied Science Degree in Business Management.

	<b>Credit</b>
BCIS 1305—Computer Applications .....	3
HRPO 1311—Human Relations.....	3
BMGT 1301—Supervision .....	3
BMGT 1313—Principles of Purchasing .....	3
BUSI 1311—Salesmanship.....	3
BMGT 1303—Principles of Management .....	3
BMGT 1331—Production and Operations Management .....	3

BMGT 1325—Office Management .....	3
BMGT 2368—Field Experience (Practicum).....	3
HRPO 2301—Human Resources Management .....	3

**Certificate of Technology Total** **30**

**Capstone Experience: BMGT 2368**

## Supervision

### Occupational Certificate

#### All Campuses

	<b>Credit</b>
HRPO 1311—Human Relations.....	3
HRPO 2301—Human Resources Management .....	3
BUSI 1311—Salesmanship.....	3
BMGT 1301—Supervision .....	3
BMGT 1313—Principles of Purchasing or BMGT 1325—Office Management.....	3

**Certificate of Technology Total** **15**

**Capstone Experience: HRPO 2301**

## Small Business Entrepreneur Option

### Associate of Applied Science Degree

#### All Campuses

The Small Business Entrepreneur option is suitable for anyone who desires to own or manage a small business. This two-year degree program has been recommended by an advisory committee of small business owners. Students pursuing a bachelor's degree should see a counselor or the Business Department chair prior to registration.

## First Term

	<b>Credit</b>
ACCT 2301—Accounting Principles I or ACNT 1303—Introduction to Accounting I .....	3
BCIS 1305—Business Computer Applications.....	3
BUSI 2301—Business Law I .....	3
BUSG 2309—Small Business Management .....	3
BMGT 1301—Supervision .....	3
HRPO 1311—Human Relations.....	3
	<b>18</b>

## Second Term

ACCT 2302—Accounting Principles II or ACNT 1311—Introduction to Computerized Accounting .....	3
HRPO 2301—Human Resources Management .....	3
BUSI 1311—Salesmanship.....	3
MRKG 1311—Principles of Marketing.....	3
BMGT 1391—Special Topics in Business and Management.....	3

**15**

## Third Term

BUSG 2317–Business Law/Commercial .....	3
ENGL 1301–Composition I .....	3
BMGT 2368–Field Experience (Practicum).....	3
Psychology or Sociology or Economics.....	3
SPCH 1315– Public Speaking or SPCH 1321– Business and Professional Speech .....	3
MATH 1333–Contemporary Mathematics for Technical Programs .....	3
PHED Activity .....	1
	<b>19</b>

## Fourth Term

BUSI 2304–Business Communications.....	3
ENGL 2311–Technical Report Writing.....	3
BMGT 2368–Field Experience (Practicum).....	3
*Humanities or Fine Arts .....	3
PHED Activity .....	1
	<b>13</b>

**Associate of Applied Science Degree Total** **65**

**Capstone Experience: BMGT 2368**

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*

## Small Business Entrepreneur Certificate of Technology

### All Campuses

The Small Business Entrepreneur Certificate of Technology Program is designed for students who desire to earn a credential after one year of study. All courses required for the certificate of technology may apply toward the Small Business Entrepreneur Associate of Applied Science Degree.

	Credit
ACCT 2301–Accounting Principles I or ACNT 1303–Introduction to Accounting I.....	3
ACCT 2302–Accounting Principles II or ACNT 1311–Introduction to Computerized Accounting .....	3
BCIS 1305–Business Computer Applications or POFI 1301–Computer Applications I.....	3
BUSI 2301–Business Law I .....	3
BUSG 2309–Small Business Management .....	3
BMGT 1301–Supervision .....	3
HRPO 2301–Human Resources Management .....	3
MRKG 1311–Principles of Marketing.....	3
HRPO 1311–Human Relations.....	3
BUSI 1311–Salesmanship.....	3
<b>Certificate of Technology Total</b>	<b>30</b>

**Capstone Experience: MRKG 1311**

## E-Commerce Management Occupational Certificate

### All Campuses

	Credit
ITSC 1313–Internet Web Page Development .....	3
ITSE 2313–Web Authoring .....	3
BMGT 1313–Principles of Purchasing or MRKG 1311–Principles of Marketing .....	3
BMGT 1391–Special Topic: E-Commerce Mgmt .....	3
MRKG 2376–E-Commerce Marketing .....	3

**Occupational Certificate Total** **18**

**Capstone Experience: MRKG 2376**

## Business Management Certificate of Specialization

### All Campuses

This certificate of specialization program is designed to provide entry-level skills and a foundation for completing a higher-level certificate or degree program. Students must complete all the courses required for a certificate within three years and make a grade of C or better in each course. Application for this certificate should be made in the Behavioral/Social Science and Business Administration Division Office.

### Sales Associate

HRPO 1311–Human Relations
BMGT 1301–Supervision
BUSI 1311–Salesmanship

## Foundations of Supervision Marketable Skills Achievement Certificate

### All Campuses

BMGT 1301–Supervision .....	3
BMGT 1313–Principles of Purchasing or BMGT 1325–Office Management.....	3
BMGT 2368–Field Experience (Practicum).....	3
HRPO 1311–Human Relations.....	3
	<b>12</b>

## Technical Programs

### International Business and Trade Associate of Applied Science Degree

#### North Campus Only

The International Business and Trade Program is designed to prepare students for careers in the international trade community. Graduates will work as specialists in importing and exporting, as administrative service managers, as sales supervisors, as wholesale and retail buyers, as purchasing agents, as importing and exporting trade compliance officers, as transportation supervisors and as wholesale representatives. Students successfully completing the program will develop a strong background in import and export management processes, governmental controls, licensing of products, import and export documentation, customs regulations, and political-legal factors in the foreign trade environment. Topics also include international purchasing and sourcing; international marketing strategies; international monetary systems and financial institutions; international and domestic transportation; cross-cultural management and communication processes and cultural geographic distinctions that affect individual, group, and organizational behavior.

First Term	Credit
IBUS 1305—Introduction to International Business and Trade .....	3
IBUS 1301—Principles of Exports .....	3
IBUS 2341—Intercultural Management.....	3
IBUS 1302—Principles of Imports.....	3
IBUS 2345—Import Customs Regulations.....	3
	<b>15</b>

#### Second Term

IBUS 2366—Practicum (or Field Experience)—International Business/ Trade/Commerce.....	3
HMSY 1337—Introduction to Homeland Security .....	3
IBUS 1300—Global Logistics Management.....	3
IBUS 1354—International Marketing Management .....	3
	<b>12</b>

#### Summer Term

IBUS 2367—Practicum (or Field Experience)—International Business/ Trade/Commerce.....	3
	<b>3</b>

#### Third Term

MATH 1314—College Algebra or MATH 1333—Contemporary Mathematics for Technical Programs .....	3
ENGL 1301—Composition I .....	3

SOCI 1301—Introduction to Sociology .....	3
BCIS 1305—Business Computer Applications.....	3
SPAN 1411—Beginning Spanish I or another Foreign Language .....	4
PHED Activity .....	1
	<b>17</b>

#### Fourth Term

ACNT 1303—Introduction to Accounting I or ACCT 2301—Accounting Principles I.....	3
ENGL 1302—Composition II .....	3
SPCH 1321—Business and Professional Speech .....	3
PHED Activity .....	1
*Humanities or Fine Arts .....	3
HRPO 1311—Human Relations.....	3
	<b>16</b>

#### Associate of Applied Science Degree Total

**63**

#### Capstone Experience: IBUS 2367

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the transfer Core Curriculum.

### International Business and Trade Certificate of Technology

#### North Campus Only

First Term	Credit
IBUS 1305—Introduction to International Business and Trade .....	3
IBUS 1301—Principles of Exports .....	3
IBUS 2341—Intercultural Management.....	3
IBUS 1302—Principles of Imports.....	3
IBUS 2345—Import Customs Regulations.....	3
	<b>15</b>

#### Second Term

IBUS 2366—Practicum (or Field Experience)—International Business/ Trade/Commerce .....	3
HMSY 1337—Introduction to Homeland Security .....	3
IBUS 1354—International Marketing Management .....	3
IBUS 1300—Global Logistics Management.....	3
	<b>12</b>

#### Summer Term

IBUS 2367—Practicum (or Field Experience)—International Business/ Trade/Commerce .....	3
	<b>3</b>

#### Certificate of Technology Total

**30**

#### Capstone Experience: IBUS 2367

## International Business and Trade Occupational Certificate

### North Campus Only

First Term	Credit
IBUS 1301–Principles of Exports .....	3
IBUS 1302–Principles of Imports.....	3
IBUS 1305–Introduction to International Business and Trade.....	3
IBUS 2341–Intercultural Management.....	3
IBUS 2345–Import Customs Regulations.....	3
	<b>15</b>
<b>Second Term</b>	
IBUS 2366–Practicum (or Field Experience)–International Business/ Trade/Commerce.....	3
	<b>3</b>
<b>Occupational Certificate Total</b>	<b>18</b>

## Business Office Technology

### Executive/Administrative Assistant Specialty Associate of Applied Science Degree

#### All Campuses

This two-year Business Office Technology program leading to an associate of applied science degree is for students preparing for jobs as executive/administrative assistants. Students desiring a bachelor's degree should see a counselor or the Business Department chair prior to registration.

Keyboarding proficiency is recommended for the certificate programs. Students who do not have keyboarding proficiency are encouraged to take POFT 1329 or POFT 1127.

First Term	Credit
BCIS 1305 Business Computer Applications.....	3
BUSI 1304–Business Report Writing and Correspondence.....	3
POFT 1319–Records and Information Management I.....	3
POFT 2301–Document Formatting and Skill Building .....	3
HRPO 1311–Human Relations.....	3
	<b>15</b>
<b>Second Term</b>	
ACNT 1303–Introduction to Accounting I.....	3
POFI 1349–Spreadsheets .....	3

POFI 1341–Computer Applications II or POFI 1391–Special Topics in Information Processing/Data Entry Technician .....	3
POFT 1325–Business Math and Machine Applications .....	3
POFI 2301–Word Processing.....	3
BUSI 1301–Introduction to Business .....	3
	<b>18</b>

#### Third Term

ACNT 1304–Introduction to Accounting II .....	3
POFI 2331–Desktop Publishing for the Office .....	3
POFT 1309–Administrative Office Procedures I .....	3
BUSI 2304–Business Communications.....	3
ENGL 1301–Composition I .....	3
PHED Activity .....	1
	<b>16</b>

#### Fourth Term

POFT 2364–Practicum.....	3
Psychology or Sociology .....	3
SPCH 1315–Public Speaking or SPCH 1321–Business and Professional Speech.....	3
MATH 1333–Contemporary Mathematics for Technical Programs .....	3
*Humanities or Fine Arts .....	3
PHED Activity .....	1
	<b>16</b>

#### Associate of Applied Science Degree Total

**Capstone Experience: POFT 2364**

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*

### Executive/Administrative Assistant Specialty Certificate of Technology

#### All Campuses

These courses are required for the Executive/Administrative Assistant Certificate of Technology and also qualify as the first two terms of the Associate of Applied Science Degree.

First Term	Credit
BCIS 1305–Business Computer Applications.....	3
BUSI 1304–Business Report Writing and Correspondence.....	3
HRPO 1311–Human Relations.....	3
POFT 1319–Records and Information Management I.....	3
POFT 2301–Document Formatting and Skill Building .....	3
	<b>15</b>

# Technical Programs

## Second Term

ACNT 1303—Introduction to Accounting I.....	3
BUSI 1301—Introduction to Business .....	3
POFI 1349—Spreadsheets .....	3
POFI 1341—Computer Applications II .....	3
POFI 2301—Word Processing.....	3
POFT 1325—Business Math and Machine Applications .....	3
	<b>18</b>

**Certificate of Technology Total** **33**

**Capstone Experience: POFI 2301**

## Legal Secretary Specialty Associate of Applied Science Degree

### All Campuses

This two-year Business Office Technology program leading to an associate of applied science degree is for students preparing for jobs as legal secretaries. Students desiring a bachelor's degree should see a counselor or the Business Department chair prior to registration.

First Term	Credit
ACNT 1303—Introduction to Accounting I.....	3
BUSI 1304—Business Report Writing and Correspondence.....	3
BCIS 1305—Business Computer Applications.....	3
POFT 1319—Records and Information Management I.....	3
POFT 2301—Document Formatting and Skill Building .....	3
	<b>15</b>

### Second Term

BUSI 2301—Business Law I .....	3
POFI 1341—Computer Applications II .....	3
POFI 1349—Spreadsheets .....	3
POFI 2301—Word Processing.....	3
POFL 1305—Legal Terminology or LGLA 1307 Introduction to Law and the Legal Professions .....	3
POFT 1325—Business Math and Machine Applications .....	3
	<b>18</b>

### Third Term

BUSG 2317—Business Law/Commercial .....	3
BUSI 2304—Business Communications.....	3
ENGL 1301—Composition I .....	3
POFT 1309—Administrative Office Procedures I .....	3
POFL 2301—Legal Document Processing.....	3
PHED Activity .....	1
	<b>16</b>

## Fourth Term

POFT 2364—Practicum.....	3
Psychology or Sociology .....	3
SPCH 1315—Public Speaking or SPCH 1321—Business and Professional Speech .....	3
MATH 1333—Contemporary Mathematics for Technical Programs .....	3
*Humanities or Fine Arts .....	3
PHED Activity .....	1
	<b>16</b>

**Associate of Applied Science Degree Total** **65**

**Capstone Experience: POFT 2364**

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*

## Legal Secretary Specialty Certificate of Technology

These courses are required for the Legal Secretary Specialty Certificate of Technology and also qualify as the first two terms of the associate of applied science degree.

First Term	Credit
ACNT 1303—Introduction to Accounting I.....	3
BUSI 1304—Business Report Writing and Correspondence.....	3
BCIS 1305—Business Computer Applications.....	3
POFT 1319—Records and Information Management I.....	3
POFT 2301—Document Formatting and Skill Building .....	3
	<b>15</b>

### Second Term

BUSI 2301—Business Law I .....	3
POFI 1341 Computer Applications II .....	3
POFI 1349 Spreadsheets.....	3
POFI 2301—Word Processing.....	3
POFL 1305—Legal Terminology or LGLA 1307 Introduction to Law and the Legal Professions .....	3
POFT 1325—Business Math and Machine Applications .....	3
	<b>18</b>

**Certificate of Technology Total** **33**

**Capstone Experience: POFL 1305**

## Medical Administrative Assistant Specialty Associate of Applied Science Degree

### All Campuses

This two-year Business Office Technology program leading to an associate of applied science degree is for students preparing for jobs as medical administrative assistants. Students desiring a bachelor's degree should see a counselor or the Business Office Technology Department Chair prior to registration.

First Term	Credit
ACNT 1303—Introduction to Accounting I.....	3
BCIS 1305—Business Computer Applications.....	3
BUSI 1304—Business Report Writing and Correspondence.....	3
HITT 1305—Medical Terminology I.....	3
POFT 1319—Records and Information Management I.....	3
	<b>15</b>

Second Term	Credit
ACNT 1304—Introduction to Accounting II.....	3
POFI 1349—Spreadsheets.....	3
POFI 2301—Word Processing.....	3
MRMT 1307—Medical Transcription I.....	3
POFT 1325—Business Math and Machine Applications.....	3
POFT 2301—Document Formatting and Skillbuilding.....	3
	<b>18</b>

Third Term	Credit
BUSI 2304—Business Communications.....	3
ENGL 1301—Composition I.....	3
POFM 1327—Medical Insurance or MDCA 1343—Medical Insurance.....	3
SPCH 1315—Public Speaking or SPCH 1321—Business and Professional Speech.....	3
POFT 1309—Administrative Office Procedure.....	3
PHED Activity.....	1
	<b>16</b>

Fourth Term	Credit
POFT 2364—Practicum.....	3
MATH 1333—Contemporary Mathematics for Technical Programs.....	3
*Humanities or Fine Arts.....	3
Psychology or Sociology.....	3
HRPO 1311—Human Relations.....	3
PHED Activity.....	1
	<b>16</b>
<b>Associate of Applied Science Degree Total</b>	<b>65</b>

**Capstone Experience: POFT 2364**

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.

## Medical Administrative Assistant Specialty Certificate of Technology

### All Campuses

These courses are required for the Medical Administrative Assistant Specialty Certificate of Technology and also qualify as the first two terms of the associate of applied science degree.

First Term	Credit
ACNT 1303—Introduction to Accounting I.....	3
BUSI 1304—Business Report Writing and Correspondence.....	3
BCIS 1305—Business Computer Applications.....	3
HITT 1305—Medical Terminology I.....	3
POFT 1319—Records and Information Management I.....	3
	<b>15</b>

Second Term	Credit
ACNT 1304—Introduction to Accounting II.....	3
POFI 1349—Spreadsheets.....	3
POFI 2301—Word Processing.....	3
MRMT 1307—Medical Transcription I.....	3
POFT 2301—Document Formatting and Skillbuilding.....	3
POFT 1325—Business Math and Machine Applications.....	3
	<b>18</b>

**Certificate of Technology Total 33**  
**Capstone Experience: HITT 1305**

## Business Software Specialty Certificate of Technology

### All campuses

First Term	Credit
BCIS 1305—Business Computer Applications.....	3
BUSI 1304—Business Report Writing and Correspondence.....	3
HRPO 1311—Human Relations.....	3
POFI 1341—Computer Applications II.....	3
	<b>12</b>

Second Term	Credit
POFI 1349—Spreadsheets.....	3
POFI 2331—Desktop Publishing for the Office or POFI 1391—Special Topics in Information Processing/Web Page Design.....	3
POFI 2301—Word Processing.....	3
POFT 2301—Document Formatting and Skill Building.....	3
	<b>12</b>

**Certificate of Technology Total 24**  
**Capstone Experience: POFI 1349**

# Technical Programs

## General Office Clerk

### Occupational Skills Certificate

#### All Campuses

This short certificate program is designed for students who need entry-level skills to begin working in an office. All courses in this program except POFT 1329 also apply toward two Business Office Technology certificates of technology and the related associate of applied science degrees.

First Term	Credit
BUSI 1304–Business Report Writing and Correspondence.....	3
BCIS 1305–Business Computer Applications.....	3
POFT 1319–Records and Information Management I.....	3
POFT 1325–Business Math and Machine Applications .....	3
POFT 2301–Document Formatting and Skill building.....	3
<b>Occupational Certificate Total</b>	<b>15</b>

## Business Office Technology

### Marketable Skills Achievement Certificates

#### All Campuses

Each of these certificate programs are designed to provide entry-level skills and to be a foundation for completing a higher-level certificate or degree. Students must complete all the courses in a certificate program within three years and make a grade of C or better in each course. Application for these certificates should be made in the Behavioral/Social Sciences and Business Administration Division Office.

#### Accounting Specialty

- ACNT 1303–Introduction to Accounting I
- ACNT 1304–Introduction to Accounting II
- ACNT 1311–Introduction to Computerized Accounting
- POFT 1349–Spreadsheets or  
BCIS 1305–Business Computer Applications

#### General Office Specialty

- BUSI 1304–Business Report Writing and Correspondence
- \*POFT 1329–Keyboarding and Document Formatting
- POFT 2301–Document Formatting and Skill building
- POFT 1319–Records and Information Management I

\* Students who can demonstrate keyboarding proficiency are exempt from taking POFT 1329 and may substitute a course that is listed as a requirement in one of the Business Office Technology Certificates.

#### Business Computer Applications Specialty

- BCIS 1305–Business Computer Applications
- POFT 2301–Document Formatting and Skill Building
- POFI 2301–Word Processing
- POFI 1349–Spreadsheets

## Legal Secretary Specialty

- BUSI 1304–Business Report Writing and Correspondence
- BCIS 1305–Business Computer Applications I
- POFL 2301–Legal Document Processing
- POFT 2301–Document Formatting and Skill Building

# Chemical Technology

See Process Technology

# Child Development/Early Childhood Education

## Child Development/Early Childhood Education University Transfer Plan Associate of Art Degree

#### Central and North Campuses

An associate of arts degree is available for students working toward a baccalaureate degree with teacher certification for Early Childhood Education (EC–4th grade, effective September, 2002). See the Child Development Department chair or a counselor for more information.

Students who will pursue a four-year degree at a college or university should enroll in the Associate of Arts (A.A.) degree plan for a maximum of transferable credit. All students considering transfer should consult with a counselor regarding the specific requirements of various universities for this major.

## Child Development/Early Childhood Education Associate of Applied Science Degree

This curriculum is designed to develop basic skills, attitudes and competencies necessary for personnel to provide high-quality care and early education in preschools and childcare centers.

First Term	Credit
TECA 1354–Child Growth and Development or CDEC 1354–Child Growth and Development.....	3
CDEC 1319–Child Guidance.....	3
TECA 1311–Educating Young Children or CDEC 1311–Educating Young Children.....	3
CDEC 1413–Curriculum Resources for Early Childhood Programs ...	4
ENGL 1301–Composition I .....	3

## Second Term

CDEC 1356—Emergent Literacy for Early Childhood .....	3
TECA 1318—Wellness of the Young Child or CDEC 1318—Wellness of the Young Child.....	3
CDEC 2407—Math and Science for Early Childhood .....	4
*Humanities or Fine Arts .....	3
Approved Elective .....	3
PHED Activity .....	1
	<b>17</b>

## Third Term

CDEC 1458—Creative Arts for Early Childhood .....	4
PHED 1332—Elementary and Recreational Game Skills.....	3
SPCH 1315—Public Speaking or SPCH 1321—Business and Professional Speech or SPCH 1342—Voice and Diction .....	3
Approved Elective .....	3
MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra .....	3
	<b>16</b>

## Fourth Term

CDEC 2326—Administration of Programs for Children I or CDEC 2328—Administration of Programs for Children II.....	3
CDEC 2366—Practicum (or Field Experience)—Child Care Provider/Assistant .....	3
*Behavioral or Social Science .....	3
PHED Activity .....	1
Approved Electives .....	6
	<b>16</b>

## Associate of Applied Science Degree Total

**Capstone Experience: CDEC 2366** **65**

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

Approved Electives			
CDEC 1303	TECA 1303	CDEC 1359	CDEC 1417
CDEC 1321	CDEC 2326	CDEC 2328	CDEC 2341
CDEC 2422	CDEC 2315	FMLD 1353	FMLD 1372
IFWA 1318	CHEF 1401	CDEC 2304	CDEC 2336
CDEC 1323	CDEC 2164	CDEC 2165	

## Child Development/Early Childhood Education Certificate of Technology

### Central and North Campuses

<b>First Term</b>	<b>Credit</b>
TECA 1354—Child Growth and Development or CDEC 1354—Child Growth and Development.....	3

CDEC 1319—Child Guidance.....	3
TECA 1311—Educating Young Children or CDEC 1311—Educating Young Children.....	3
CDEC 1413—Curriculum Resources for Early Childhood Programs .....	4
CDEC 1356—Emergent Literacy for Early Childhood .....	3
	<b>16</b>

## Second Term

TECA 1318—Wellness of the Young Child or CDEC 1318—Wellness of the Young Child .....	3
CDEC 2407—Math and Science for Early Childhood .....	4
CDEC 1458—Creative Arts for Early Childhood .....	4
CDEC 2326—Administration of Programs for Children I or CDEC 2328—Administration of Programs for Children I.....	3
CDEC 2366—Practicum (or Field Experience)—Child Care Provider/Assistant .....	3
	<b>17</b>

## Third Term

Approved Electives .....	9
	<b>9</b>

## Certificate of Technology Total

**Capstone Experience: CDEC 2366** **42**

### Approved Electives

CDEC 1303	TECA 1303	CDEC 1359	CDEC 1417
CDEC 1321	CDEC 2326	CDEC 2328	CDEC 2341
CDEC 2422	CDEC 2315	FMLD 1353	FMLD 1372
IFWA 1318	CHEF 1401	CDEC 2304	CDEC 2336
CDEC 1323	CDEC 2164	CDEC 2165	

## Child Development/Early Childhood Education Teacher Aide Certificate of Technology

### Central and North Campuses

<b>First Term</b>	<b>Credit</b>
TECA 1354—Child Growth and Development or CDEC 1354—Child Growth and Development.....	3
TECA 1318—Wellness of the Young Child or CDEC 1318—Wellness of the Young Child .....	3
TECA 1303—Families, School and Community, or CDEC 1303—Families, School and Community .....	3
CDEC 1359—Children with Special Needs.....	3
TECA 1311—Educating Young Children or CDEC 1311—Educating Young Children .....	3
	<b>15</b>

# Technical Programs

## Second Term

CDEC 1319–Child Guidance.....	3
SPCH 1315–Public Speaking or SPCH 1318–Interpersonal Communication .....	3
PHED 1322–Recreational and Elementary Games.....	3
EDUC 1301–Introduction to the Teaching Profession .....	3
Computer Literacy Elective.....	3
	<b>15</b>
<b>Certificate of Technology Total</b>	<b>30</b>

## Capstone Experience CDEC 1319

### Computer Literacy Elective:

ARTS 1170	ARTS 2351	ARTV 1402	CDEC 2328
COMM 1129	COMM 2129	DFTG 1409	DFTG 1402
ITSC 1305	ENGL 1301 (computerized sections)	ITSC 1309	ITSE 1310
ITSE 2334	EDTC 1341	POFI 1349	POFI 2301
POFT 2301	SPCH 1145	SPCH 2335	SPCH 2336
BCIS 1305			

## Child Development/Early Childhood Education Child Care Administrator's Credential Occupational Certificates

### Central and North Campuses

The Child Care Administrator's Credential Program has been designed to provide educational training for persons interested in teaching young children and/or directing childcare centers. Upon successful completion of the 19-20 semester credit hours, the student will be awarded a credential approved by the Texas Department of Protective and Regulatory Services. To renew the Child Care Administrator's Credential, a student must complete an additional child development course three years after originally completing.

Required Courses	Credit
TECA 1354–Child Growth and Development or CDEC 1354–Child Growth and Development.....	3
CDEC 1319–Child Guidance.....	3
CDEC 1458–Creative Arts for Early Childhood .....	4
CDEC 2326–Administration of Programs for Children I.....	3
CDEC 2328–Administration of Programs for Children II .....	3
Approved Elective .....	3-4
<b>Occupational Certificate Total</b>	<b>19-20</b>
<b>Capstone Experience: CDEC 2328</b>	

### Approved Electives

CDEC 1303	CDEC 1356	CDEC 1359	CDEC 2407
CDEC 2336	FMLD 1372	TECA 1303	

## Child Development/Early Childhood Education Associate Training for Directors Occupational Certificate

### Central and North Campuses

The Child Development Associate Training for Directors Occupational Certificate Program has been designed to provide educational training for persons interested in teaching young children and/or directing childcare centers. The certificate requires completion of 16 semester credit hours. Upon successful completion of the courses and upon receiving the Child Development Associate National Credential (CDA) from the Council of Early Childhood Recognition in Washington, D.C., the student meets director qualifications as set forth in the Texas Department of Protective and Regulatory Services MINIMUM STANDARDS and GUIDELINES.

Required Courses	Credit
CDEC 1417–Child Development Associate Training I .....	4
CDEC 2164–Practicum in Child Development.....	1
CDEC 2422–Child Development Associate Training II.....	4
CDEC 2165–Practicum in Child Development.....	1
CDEC 2326–Administration of Programs for Children I.....	3
CDEC 2328–Administration of Programs for Children II .....	3
<b>Occupational Certificate Total</b>	<b>16</b>
<b>Capstone Experience: CDEC 2328</b>	

## Child Development/Early Childhood Education Marketable Achiever Certificates

### Central and North Campuses

For students who have completed the Administrator's Credential Program, San Jacinto Community College District provides opportunity for additional professional development in two areas of specialization: Curriculum Specialist, and/or Parent/Child Specialist, which may be obtained after completion of the Administrator's Credential Program. Each specialization requires completion of four courses. Application for these certificates should be made in the department office. The clusters of courses for the specializations are:

## Curriculum Specialist Marketable Achiever Certificate

- TECA 1318—Wellness of the Young Child or
  - CDEC 1318—Wellness of the Young Child or
  - TECA 1311—Educating Young Children or
  - CDEC 1311—Educating Young Children
- CDEC 1356—Emergent Literacy for Early Childhood
- CDEC 2341—The School Age Child
- CDEC 1413—Curriculum Resources for Early Childhood Programs

## Parent/Child Specialist Marketable Achiever Certificate

- FMLD 1353—Marriage and Family Issues
- TECA 1303—Family, School and Community or
  - CDEC 1303—Family, School and Community
- CDEC 1321—The Infant and Toddler or
  - CDEC 1359—Children with Special Needs
- FMLD 1372—Dynamics of Human Relationships

## Child Development/Early Childhood Education Child Development Associate Training (CDA)

### Central and North Campuses

This certificate is designed to prepare childcare personnel for the Child Development Associate National Credential (CDA). The curriculum follows the six competency areas established by the Council for Early Childhood Recognition. A certificate of training will be awarded upon successful completion of the courses listed.

### Fall Term

CDEC 1417—Child Development Associate Training I .....	4
CDEC 2164—Practicum In Child Development.....	1
CDEC 2422—Child Development Associate Training II.....	4
CDEC 2165—Practicum in Child Development.....	1

**Professional Credential Total** **10**

**Capstone Experience:** CDEC 2422

## Commercial Art

See Arts and Visual Communication

## Computer-aided Drafting

See Engineering Design Graphics

## Computer Information Systems

### All Campuses

The Computer Information Systems Program is designed primarily for students seeking an occupational certificate, or certificate of technology or an associate of applied science (A.A.S.) degree. It is recommended that students complete the 18-credit hour Core Information Technology occupational certificate curriculum before continuing into a certificate of technology or associate of applied science degree program. The classes in the Core Information Technology occupational certificate plan will apply toward most of the other CIS certificates and A.A.S. degrees.

The CIS curriculum is designed to provide the student with an understanding of the principles of CIS, experience with techniques of IT and competence in the application of CIS. The College offers a core set of computer information courses leading to an occupational certificate. The occupational certificate courses form a basis for programs leading a certificate of technology and/or an associate of applied science degree in Applications Programming, Web Applications Development, Computer support, Network Administration Specialties (CISCO and Microsoft), Information Technology Security, or Database Design.

Several degree specialties are available. The Applications Programming Specialty emphasizes computer information systems and the use of computer languages in the solution of business and scientific problems. The Computer Support Specialty emphasizes the setup and use of microcomputers in computer information systems. The Network Administration Specialties (CISCO and Microsoft), emphasizes the design, implementation and administration of local and wide-area networks. Web Application Development addresses the design and development of web pages for use on the World Wide Web. Gaming Design and Development focuses on learning basic skills which will assist students in the development of software for computer graphics, multimedia, and games. Database Design emphasizes sound database design, implementation and support, methods for large database systems.

### Note to Transfer Students:

Due to variations in requirements at 4-year colleges and universities, a student desiring to pursue a bachelor's degree in Computer Science is strongly advised to consult a CIS department chair at San Jacinto Community College District and at the institution to which they wish to transfer to review the appropriate transfer degree plans to the designated university. The computer science classes located elsewhere in the San Jacinto Community College District Catalog may also be appropriate.

# Technical Programs

## Core IT Occupational Certificate

### All Campuses

First Term	Credit
ITSC 1309—Integrated Software Applications .....	3
ITSC 1305—Introduction to PC Operating Systems .....	3
ITSE 1329—Programming Logic and Design .....	3
	<b>9</b>

### Second Term

ITSE 1331—Introduction to Visual BASIC Programming .....	3
ITNW 1325—Fundamentals of Networking Tech or ITMC 1301—Microsoft Windows Networking and Operating Systems Essentials or ITCC 1402—CCNA I: Networking Basics .....	3-4
ITSW 2337—Advanced Database .....	3
	<b>9-10</b>

**Occupational Certificate Total** **18-19**  
**Capstone Experience: ITSE 2337**

## Windows Programming Occupational Certificate

### All Campuses

The following curriculum is designed to provide the student with basic programming skills. Emphasis is placed upon the use of computers in the solution of business and scientific problems. This curriculum is designed primarily for job entry. Common job titles for this certificate include programmer, applications programmer, applications developer, and programmer analyst.

First Term	Credit
ITSE 1331—Introduction to Visual BASIC Programming .....	3
ITSE 1307—Introduction to C++ Programming .....	3
ITSE 2305—Windows Programming .....	3
	<b>9</b>

### Second Term

ITSC 2335—Application Problem Solving .....	3
ITSE 2343—Advanced Windows Programming .....	3
ITSE 2331—Advanced C++ Programming or ITSE 2349—Advanced Visual BASIC Programming .....	3
	<b>9</b>

**Occupational Certificate of Total** **18**  
**Capstone Experience: ITSE 2343**

## Applications Programming Certificate of Technology

### All Campuses

First Term	Credit
ITSC 1309—Integrated Software Applications I.....	3
ITSC 1305—Introduction to PC Operating Systems.....	3
ITSE 1329—Programming Logic and Design .....	3
ITSE 1331—Introduction to Visual BASIC Programming .....	3
	<b>12</b>

### Second Term

ITNW 1325—Fundamentals of Networking Technologies or ITMC 1301—Microsoft Windows Network and Operating Systems Essentials or ITCC 1402—CCNA 1: Networking Basics.....	3-4
ITSW 2337—Advanced Database .....	3
ITSC 1307—UNIX Operating System I.....	3
ITSE 1307—Introduction to C++ Programming .....	3
ITSE 2349—Advanced Visual BASIC .....	3
	<b>15-16</b>

### Third Term

ITSE 2331—Advanced C++ Programming .....	3
ITSC 2335—Applications Problem Solving.....	3
ITSC 2386—Internship-Computer and Information Sciences, General or Approved Elective.....	3
ITSE 1345—Introduction to Oracle SQL .....	3
	<b>12</b>

**Certificate of Technology Total** **39-40**

**Capstone Experience: ITSC 2335**

### Approved Electives

IMED 1341	ITCC 1406	ITMS 1358	ITMC 2303
ITNW 1348	ITNW 2354	ITSE 1305	ITSC 1325
ITSC 1391	ITSC 2321	ITSC 2337	ITSE 1391
ITSE 2305	ITSE 2317	ITSW 2334	ITSY 1300
ITSY 1342			

## Applications Programming Specialty Associate of Applied Science Degree

### All Campuses

The Associate of Applied Science Degree adds several IT classes to the programming certificate of technology, in addition to 15 hours of general education courses. Most employers require an associate degree for an entry-level position.

First Term	Credit
ITSC 1309–Integrated Software Applications I.....	3
ITSC 1305–Introduction to PC Operating Systems.....	3
ITSE 1329–Programming Logic and Design .....	3
ITSE 1331–Introduction to Visual BASIC Programming .....	3
ENGL 1301–Composition I .....	3
PHED Activity .....	1
	<b>16</b>

Second Term	
ITNW 1325–Fundamentals of Networking Technologies or ITMC 1301–MS WIN Network and Operating System Essentials or ITCC 1402–CCNA I: Networking Basics .....	3-4
ITSW 2337–Advanced Database .....	3
ITSC 1307–UNIX Operating System I.....	3
ITSE 1307–Introduction to C++ Programming .....	3
MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	3
PHED Activity .....	1
	<b>16-17</b>

Third Term	
ITSE 2331–Advanced C++ Programming.....	3
ITSE 2349–Advanced Visual BASIC Programming.....	3
ITSE 1345–Introduction to Oracle SQL .....	3
*Humanities or Fine Arts .....	3
ENGL 2311–Technical Report Writing .....	3
Speech .....	3
	<b>18</b>

Fourth Term	
Behavioral or Social Science .....	3
HRPO 1311–Human Relations or Approved Elective.....	3
ITSC 2386–Internship–Computer and Information Systems, General or Approved Elective.....	3
ITSC 2335–Application Problem Solving .....	3
ITSE 2317–JAVA Programming .....	3
	<b>15</b>

**Associate of Applied Science Degree Total** **65-66**  
**Capstone Experience:** ITSC 2335

\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.

Approved Electives			
IMED 1341	ITCC 1406	ITMC 1358	ITMC 2303
ITNW 1348	ITNW 2354	ITSE 1305	ITSC 1325
ITSC 1391	ITSC 2321	ITSC 2337	ITSE 1391
ITSE 2305	ITSW 2334	ITSY 1300	ITSY 1342

## Web Development

### All Campuses

Web development is divided into two major areas: web page programming and web page design. Web page programming focuses on connecting web pages to data sources and back-end data servers. Web page design focuses on the aesthetic layout and artistic style of the web site. The Web Applications Development Certificate of Technology and Associate of Applied Science Degree focus on programming. The Web Page Design and Implementation Certificate of Technology programs focus on layout and style.

## E-commerce/Web Page Design Occupational Certificate

### All Campuses

First Term	Credit
ITNW 1325–Fundamentals of Networking Technologies or ITCC 1402–CCNA 1: Networking Basics.....	3
ITSE 1305–Web Authoring and Publishing.....	3
ITSE 2302–Internet Web Programming .....	3
IMED 2309–Internet/Electronic Commerce.....	3
IMED 1345–Interactive Multimedia I .....	3
<b>Occupational Certificate Total</b>	<b>15</b>
<b>Capstone Experience:</b> IMED 2309	

## Web Page Design and Implementation Certificate of Technology

### All Campuses

The following curriculum is designed to provide the student with basic web applications development skills. Emphasis is placed on artistic and graphic design with basic programming skills. Common job titles for this certificate include: webmaster, web specialist, web applications developer, and web designer.

First Term	Credit
ITSE 1329–Programming Logic and Design .....	3
IMED 1341–2D Interface Design or ARTC 2305–Digital Imaging II.....	3
IMED 1301–Introduction to Multimedia .....	3
ARTC 1325–Introduction to Computer Graphics .....	3
	<b>12</b>

## Second Term

ITSE 1305–Web Authoring and Publishing.....	3
ITSE 1331–Introduction to Visual BASIC Programming .....	3
ARTC 1317–Design Communication I.....	3
ARTC 1301–Basic Animation or ARTV 1351–Digital Video .....	3
	<b>12</b>

## Third Term

ITSE 2313–Web Authoring .....	3
IMED 1345–Interactive Multimedia I .....	3
IMED 2309–Internet Commerce.....	3
IMED 2315–Web Page Design II.....	3
	<b>12</b>

### Certificate of Technology Total:

Capstone Experience: **IMED 2309 or IMED 2315**

**36**

## Web Applications Development Certificate of Technology

### All Campuses

The following curriculum is designed to provide the student with basic web appreciation development skills. Emphasis is placed upon designing web applications to communicate with data sources and business systems. Common job titles for this certificate include webmaster, web specialist, web application developer, and web designer.

### First Term

	Credit
ITSC 1309–Integrated Software Applications .....	3
ITSC 1305–Introduction to PC Operating Systems.....	3
ITSE 1329–Programming Logic and Design .....	3
ITSE 1305–Web Authoring and Publishing.....	3
ITSE 1331–Introduction to Visual BASIC Programming .....	3
	<b>15</b>

### Second Term

ITSE 1307–Introduction to C++ Programming .....	3
ITNW 1325–Fundamentals of Networking Technologies or ITMC 1301–Microsoft Windows Network and Operating System Essentials or ITCC 1402–CCNA 1: Networking Basics.....	3
IMED 1341–2D Interface Design .....	3
ITSW 2337–Advanced Database .....	3
	<b>12</b>

### Third Term

ITSE 2313–Web Authoring .....	3
ITSC 2386–Internship–Computer and Information Sciences, General or Approved Elective .....	3
IMED 2309–Internet Commerce.....	3
IMED 1345–Interactive Multimedia I .....	3
	<b>12</b>

### Certificate of Technology Total

**39-40**

Capstone Experience: **IMED 2309 or ITSC 2386**

### Approved Electives

ITCC 1406	ITMC 1358	ITNW 1392	ITNW 2305
ITNW 1348	ITNW 2354	ITSC 2321	ITSE 1345
ITSE 2317	ITSE 2331	ITSE 1391	ITSW 2334

## Web Applications Development Speciality Associate of Applied Science Degree

### All Campuses

The following curriculum is designed to provide the student with basic web application development skills. Emphasis is placed upon developing web applications to communicate with data sources and business systems. Common job titles for this degree include webmaster, web specialist, web applications developer or web designer.

### First Term

	Credit
ITSC 1309–Integrated Software Applications I.....	3
ITSC 1305–Introduction to PC Operating Systems.....	3
ITSE 1329–Programming Logic and Design .....	3
ITSE 1305–Web Authoring and Publishing.....	3
ENGL 1301–Composition I .....	3
PHED Activity .....	1
	<b>16</b>

### Second Term

ITSE 1331–Introduction to Visual BASIC Programming .....	3
ITNW 1325–Microsoft Networking Essentials or ITMC 1301–Microsoft Windows Network and Operating Systems Essentials or ITCC 1402–CCNA 1: Networking Basics.....	3-4
IMED 1341–2D Interface Design .....	3
ITSW 2337–Advanced Database .....	3
MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	3
PHED Activity .....	1
	<b>16-17</b>

### Third Term

ITSE 1307–Introduction to C++ Programming .....	3
ITSE 2313–Web Authoring .....	3
ITNW 2354–Internet/Intranet Server.....	3
IMED 1345–Interactive Multimedia I .....	3
*Social or Behavioral Science .....	3
ENGL 1311–Technical Writing .....	3
	<b>18</b>

## Fourth Term

IMED 2309—Internet Commerce .....	3
ITSE 2317—JAVA Programming .....	3
ITSC 2386—Internship—Computer and Information Systems—General or Approved Elective .....	3
ITSE 1345—Introduction to Oracle SQL .....	3
*Humanities or Fine Arts .....	3
Speech .....	3

**18**

## Associate of Applied Science Degree Total

**68-69**

### Capstone Experience: IMED 2309 or IMED 1345

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

#### Approved Electives

ITCC 1406	ITMC 1358	ITNW 1348	ITNW 1392
ITNW 2305	ITSC 2321	ITSE 2331	ITSE 1391
ITSW 2334			

## Computer Support

### All Campuses

The following curriculum is designed to provide the student with basic skills in desktop computer hardware and software support. Students will learn to install, maintain, repair, replace and upgrade desktop computers. This program prepares students for industry certifications such as A+, Net+ and Microsoft Office Specialist (MOS). Common job titles for this certificate include computer support specialist, helpdesk support, and PC technician.

### Computer Support

#### Certificate of Technology

### All Campuses

#### First Term

#### Credit

ITSC 1309—Integrated Software Applications I.....	3
ITSC 1305—Introduction to PC Operating Systems.....	3
ITSE 1329—Programming Logic and Design .....	3
ITNW 1325—Fundamentals of Networking Technologies or ITMC 1301—Microsoft Windows Network and Operating Systems Essentials or ITCC 1402—CCNA 1: Networking Basics .....	3-4

**12-13**

## Second Term

ITSE 1331—Introduction to Visual BASIC Programming .....	3
ITSC 2321—Integrated Software Applications II.....	3
ITSC 1325—Personal Computer Hardware .....	3
ITSW 2337—Advanced Database .....	3

**12**

## Third Term

ITNW 1348—Implementing and Supporting Client Operating Systems or ITMC 1358—Supporting Microsoft Windows or ITSC 1307—UNIX Operating System I.....	3
ITSC 2339—Personal Computer Help Desk.....	3
ITSC 1321—Intermediate PC Operating Systems.....	3
ITSC 2386—Internship Computer and Information Systems, General or Approved Elective.....	3

**12**

## Certificate of Technology Total

**36-37**

### Capstone Experience: ITSC 2339

#### Approved Electives

ITCC 1406	ITMC 1319	ITMC 1358	ITNW 1348
ITNW 1354	ITNW 2305	ITNW 2354	ITSC 1307
ITSE 1305	ITSC 1391	ITSE 1307	ITSE 1345
ITSE 2349	ITSW 2334		

### Computer Support Specialty

#### Associate of Applied Science Degree

### All Campuses

The Computer Support Associate of Applied Science Degree adds several IT classes to the Computer Support Certificate of Technology. In addition, it adds 15 hours of general education courses. Most employers require an associate degree for an entry-level position.

#### First Term

#### Credit

ITSC 1309—Integrated Software Applications I.....	3
ITSC 1305—Introduction to PC Operating Systems.....	3
ITSE 1329—Programming Logic and Design .....	3
ENGL 1301—Composition I .....	3
ITNW 1325—Fundamentals of Networking Technologies or ITMC 1301—Microsoft Windows Network and Operating Systems Essentials or ITCC 1402—CCNA 1: Networking Basics .....	3-4
PHED Activity .....	1

**16-17**

# Technical Programs

## Second Term

ITSE 1331—Introduction to Visual BASIC Programming .....	3
ITSC 1325—Personal Computer Hardware .....	3
MATH 1333—Contemporary Mathematics for Technical Programs or	
MATH 1314—College Algebra .....	3
ITSW 2334—Advanced Spreadsheets.....	3
ENGL 2311—Technical Report Writing.....	3
PHED Activity .....	1
	<b>16</b>

## Third Term

ITSC 1307—UNIX Operating System I .....	3
ITSC 1321—Intermediate PC Operating Systems.....	3
ITSC 2321—Integrated Software Applications II.....	3
ITSW 2337—Advanced Database .....	3
Speech .....	3
	<b>15</b>

## Fourth Term

ITSC 2386—Internship—Computer and Information Sciences, General or Approved Elective.....	3
ITMC 1358—Supporting Microsoft Client Network Operating Systems or	
ITNW 1348—Implementing and Supporting Client Operating Systems .....	3
ITSC 2339—Personal Computer Help Desk.....	3
*Humanities or Fine Arts .....	3
*Behavioral or Social Science .....	3
	<b>15</b>

**Associate of Applied Science Degree Total** **62-63**

**Capstone Experience:** ITSC 2339

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

### Approved Electives

ITCC 1402	ITCC 1406	ITMC 1319	ITNW 1354
ITNW 2305	ITNW 2354	ITSE 1305	ITSC 1391
ITSE 1307	ITSE 1345	ITSE 2349	

## Network Administration - Microsoft

### All Campuses

The following curriculum is designed to provide the student with basic skills in Microsoft computer network technical service. Emphasis is placed upon the installation and maintenance of networks. A graduate will be able to administer and troubleshoot data and communication networks. Common

job titles for graduates include network technician, network administrator, server administrator, and network operations specialist. These courses can lead to the Microsoft Certified Professional (MCP), and/or Microsoft Certified Systems Engineer (MCSE), Net+, and Server+ certifications.

## Beginning Network Administration Microsoft Specialty Occupational Certificate

### All Campuses

First Term	Credit
ITSC 1305—Introduction to PC Operating Systems.....	3
ITMC 1301—MS Windows 2000 Network and Operating System Essentials or	
ITNW 1325—Fundamentals of Network Technologies or	
ITCC 1402—CCNA 1: Networking Basics.....	3-4
ITMC 1358—Supporting Microsoft Windows 2000 or	
ITNW 1348—Implementing Supporting Client Operating Systems .....	3
	<b>9-10</b>

### Second Term

ITMC 1319—Installing and Administering Windows Server Operating Systems or	
ITNW 1354—Implementing and Supporting Server.....	3
ITSC 1325—Personal Computer Hardware .....	
ITMC 1342—Implementing a Microsoft Windows Network Infrastructure or	
ITNW 1353—Supporting Network Server Infrastructure.....	3
	<b>9</b>
<b>Occupational Certificate Total</b>	<b>15-16</b>
<b>Capstone Experience:</b>	<b>ITMC 1342 or ITNW 1353</b>

## Advanced Network Administration Microsoft Specialty Occupational Certificate

### All Campuses

First Term	Credit
ITMC 1343—Implementing and Administering Microsoft Windows Directory Server or	
ITNW 1345—Implementing Network Directory Services.....	3
ITNW 2354—Internet/Intranet Server.....	3
ITSW 2337—Advanced Database or	
ITSE 1345—Introduction to Oracle SQL .....	3
	<b>9</b>

## Second Term

ITMC 2303—Administering a Microsoft SQL Server Database or ITNW 2355—Administering Microsoft SQL Server .....	3
ITSC 2386—Internship—Computer and Information Sciences, General or Approved Elective.....	3
ITMC 2331—Designing a Microsoft Windows Directory Services Infrastructure or ITNW 2356—Administering Microsoft SQL Server .....	3
	<b>9</b>

**Occupational Certificate Total** **18**

**Capstone Experience:** **ITMC 2331 or ITNW 2356**

Approved Electives

ITMC 2304	ITNW 1392	ITNW 2305	ITSC 1325
ITSY 1300	ITNW 1346	ITSY 1342	

## Network Administration Microsoft Speciality Certificate of Technology

### All Campuses

First Term	Credit
ITSC 1309—Integrated Software Applications I.....	3
ITSC 1305—Introduction to PC Operating Systems.....	3
ITSE 1329—Programming Logic and Design .....	3
ITMC 1301—Microsoft Windows Network and Operating System Essentials or ITNW 1325—Fundamentals of Networking Technologies or.....	
ITCC 1402—CCNA 1:Networking Basics.....	3-4
	<b>12-13</b>

### Second Term

ITSC 1325—Personal Computer Hardware .....	3
ITSE 1331—Introduction to Visual BASIC Programming .....	3
ITSW 2337—Advanced Database .....	3
ITMC 1358—Supporting Microsoft Windows Client Network Operating Systems or ITNW 1348—Implementing and Supporting Client Operating Systems .....	3
	<b>12</b>

### Third Term

ITSC 2386—Internship—Computer and Information Sciences, General, or Approved Elective.....	3
ITMC 1319—Installing and Administering Microsoft Windows Server Operating Systems or ITNW 1354—Implementing and Supporting Servers.....	3
ITNW 2354—Internet/Intranet Server.....	3

ITMC 1342—Implementing a Microsoft Windows Network Infrastructure or ITNW 1353—Supporting Network Server Infrastructure.....	3
	<b>12</b>

**Certificate of Technology Total** **36-37**

**Capstone Experience:** **ITMC 1342 or ITNW 1353**

### Approved Electives

ITNW 1392	ITNW 2305	ITSC 1307	ITSE 1305
ITSC 1321	ITSC 1391	ITSE 1307	ITSE 1345
ITSE 1391	ITSE 2349	ITSW 2334	ITSY 1300
ITSY 1342			

## Network Administration Microsoft Speciality Associate of Applied Science Degree

### All Campuses

First Term	Credit
ITSC 1309—Integrated Software Applications I.....	3
ITSC 1305—Introduction to PC Operating Systems.....	3
ITMC 1301—Microsoft Windows Network and Operating Systems Essentials or ITNW 1325—Fundamentals of Networking Technologies or ITCC 1402—CCNA 1: Networking Basics.....	3-4
ITSE 1329—Programming Logic and Design .....	3
ENGL 1301—Composition I .....	3
PHED Activity .....	1
	<b>16-17</b>

### Second Term

MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra .....	3
ITSC 1325—Personal Computer Hardware .....	3
ITSE 1331—Introduction to Visual BASIC Programming .....	3
ITNW 2337—Advanced Database.....	3
ITMC 1358—Supporting Microsoft Windows Client Network Operating Systems or ITNW 1348—Implementing and Supporting Client Operating Systems .....	3
PHED Activity .....	1
	<b>16</b>

### Third Term

ITNW 2354—Internet/Intranet Server.....	3
ITMC 1319—Installing and Administering Microsoft Windows Server Operating Systems or ITNW 1354—Implementing and Supporting Services .....	3
ITMC 1342—Implementing a Microsoft Windows Network Infrastructure or ITNW 1353—Supporting Network Server Infrastructure.....	3
Speech .....	3
ENGL 2311—Technical Report Writing.....	3
	<b>15</b>

# Technical Programs

## Fourth Term

ITSC 2386—Internship—Computer and Information Sciences, General or Approved Elective.....	3
ITSC 1307—UNIX Operating System I or ITNW 2305—Network Administration.....	3
ITMC 1343—Implementing and Administering Microsoft Directory Services or ITNW 1345—Implementing Network Directory Services.....	3
*Behavioral or Social Science.....	3
*Humanities or Fine Arts.....	3
	<u>15</u>

**Associate of Applied Science Degree Total** **62-63**

**Capstone Experience: ITMC 1343 or ITNW 1345**

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

### Approved Electives

ITCC 1406	ITMC 2303	ITNW 2355	ITSE 1305
ITSC 1321	ITSC 1391	ITSE 1307	ITSE 1345
ITSE 1391	ITSE 2349	ITSW 2334	ITSY 1300
ITSY 1342			

## Network Administration - CISCO

### All Campuses

The following curriculum is designed to provide the student with the skills needed to work as a CISCO network technician. Emphasis is placed upon the installation and maintenance of networks in business and industry. The graduate will be able to administer and troubleshoot CISCO networking equipment and networking infrastructure. Beginning and advanced occupational certificates, a certificate of technology, and an Associate of Applied Science degree are available. Common job titles for graduates include network technician, CISCO service representative, technical support specialist, and network system administrator. The CISCO courses can lead to the certifications of Certified CISCO Network Associate (CCNA), Certified CISCO Network Professional (CCNP), and Camptia Net+.

### Beginning Network Administration CISCO Speciality Occupational Certificate

#### All Campuses

First Term	Credit
ITCC 1402—CCNA1: Networking Basics.....	4
ITCC 1406—CCNA2: Router and Routing Basics.....	4
	<u>8</u>

## Second Term

ITCC 1442—CCNA3: Switching Basics and Intermediate Routing.....	4
ITCC 1446—CCNA4: WAN Technologies.....	4
	<u>8</u>
<b>Occupational Certificate Total</b>	<b>16</b>
<b>Capstone Experience: ITCC 1446</b>	

### Advanced Network Administration CISCO Speciality Occupational Certificate

#### All Campuses

First Term	Credit
ITCC 2432—Advanced Routing: Cisco 5.....	4
ITCC 2436—Remote Access: Cisco 6.....	4
	<u>8</u>

## Second Term

ITCC 2440—Multilayer Switching: Cisco 7.....	4
ITCC 2444—Network Troubleshooting: Cisco 8.....	4
	<u>8</u>
<b>Occupational Certificate Total</b>	<b>16</b>
<b>Capstone Experience: ITCC 2444</b>	

### Network Administration CISCO Speciality Certificate of Technology

#### All Campuses

First Term	Credit
ITCC 1402—CCNA 1: Networking Basics.....	4
ITSC 1309—Integrated Software Applications I.....	3
ITSC 1305—Introduction to PC Operating Systems.....	3
ITSC 1325—Personal Computer Hardware.....	3
	<u>13</u>

## Second Term

ITNW 1348—Implementing and Supporting Client Operating Systems or ITMC 1358—Supporting Microsoft Windows Client Network Operating Systems.....	3
ITSC 1307—UNIX Operating System I or Approved Elective.....	3
ITCC 1406—CCNA 2: Router and Routing Basics.....	4
ITSW 2337—Advanced Database.....	3
	<u>13</u>

## Third Term

ITSC 2386—Internship—Computer and Information Sciences, General or Approved Elective.....	3
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ITCC 1442–CCNA 3: Switching Basic and Intermediate Routing .....	4
ITCC 1446–CCNA 4: WAN Technologies.....	4
ITMC 1319–Installing and Administering Microsoft Windows Server Operating Systems or ITNW 1354–Implementing and Supporting Services .....	3
	<b>14</b>

**Certificate of Technology Total** **40**  
**Capstone Experience: ITCC 1446 or ITSC 2386**

Approved Electives:

ITNW 1392	ITNW 2305	ITSE 1329	ITSE 1331
ITSY 1300	ITSY 1342		

## Network Administration CISCO Specialty Associate of Applied Science Degree

### All Campuses

First Term	Credit
ITSC 1309–Integrated Software Applications I.....	3
ITSC 1305–Introduction to PC Operating Systems.....	3
ITCC 1402–CCNA 1: Networking Basics .....	4
ITSE 1329–Programming Logic and Design .....	3
ENGL 1301–Composition I.....	3
PHED Activity .....	1
	<b>17</b>

### Second Term

ITSC 1325–Personal Computer Hardware .....	3
ITCC 1406–CCNA 2: Router and Routing Basics .....	4
ITSE 1331–Introduction to Visual BASIC Programming .....	3
MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	3
Speech .....	3
PHED Activity .....	1
	<b>17</b>

### Third Term

ITSW 2337–Advanced Database .....	3
ITNW 1348–Implementing and Supporting Client Operating Systems or ITMC 1358–Supporting Microsoft Windows Client Network Operating Systems .....	3
ITCC 1442–CCNA 3: Switching Basic and Intermediate Routing .....	4
*Social or Behavioral Science .....	3
ENGL 2311–Technical Report Writing.....	3
	<b>16</b>

### Fourth Term

ITSC 2386–Internship–Computer and Information Science–General or Approved Elective.....	3
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ITNW 1354–Implementing and Supporting Services or ITMC 1319–Installing and Administering Microsoft Windows Server Operating Systems or ITSC 1307–UNIX Operating System I or Approved Elective.....	3
ITCC 1446–CCNA4: WAN Technologies.....	4
INTW 2354–Internet/Intranet Server or ITMC 1342–Implementing a Microsoft Windows Network Infrastructure or ITNW 1353–Supporting Network Server Infrastructure.....	3
*Humanities or Fine Arts .....	3
	<b>16</b>
<b>Associate of Applied Science Degree Total</b>	<b>66</b>

**Capstone Experience: ITCC 1446**

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

Approved Electives:

ITMC 2304	ITNW 1392	ITNW 2305	ITSC 1391
ITSE 1305	ITSC 1321	ITSC 2321	ITSE 2337
ITSE 1307	ITNW 1346	ITSE 1331	ITSE 1345
ITSE 1391	ITSW 2334	ITSY 1300	ITSY 1342

## Information Technology Security

### All Campuses

With this certificate or Associate of Applied Science Degree, graduates can work in the network security field to help keep hackers, viruses, and terrorists from intruding and damaging computers. Common job titles include information technology security officer, network operations specialist, VPN engineer, and chief security officer.

## Advanced Information Technology Security Occupational Certificate

### All Campuses

First Term	Credit
ITSY 2300–Operating System Security.....	3
ITSY 2301–Firewalls and Network Security.....	3
ITSY 2341–Security Management Practices.....	3
	<b>9</b>

### Second Term

ITSY 2342–Incident Response and Handling .....	3
ITSY 2343–Computer System Forensics.....	3
ITSY 2359–Security Assessment and Auditing.....	3
	<b>9</b>

**Occupational Certificate Total** **18**

**Capstone Experience: ITSY 2359**

# Technical Programs

## Information Technology Security Certificate of Technology

### All Campuses

First Term	Credit
ITSC 1309–Integrated Software Applications I.....	3
ITNW 1325–Fundamentals of Networking Technologies or ITMC 1301–Microsoft Windows 2000 Networking and Operating Systems or ITCC 1402–CCNA 1:Networking Basics.....	3-4
ITSE 1329–Programming Logic and Design .....	3
ITSC 1305–Introduction to PC Operating Systems.....	3

**12-13**

### Second Term

ITSC 1307–UNIX Operating Systems I .....	3
ITNW 1348–Implementing and Supporting Client Operating Systems or ITMC 1358–Supporting Microsoft Windows Client Network Operating System.....	3
ITSY 1300–Fundamentals of Information Security.....	3
ITSY 1342–Information Technology Security .....	3

**12**

### Third Term

ITNW 1354–Implementing and Supporting Services or ITMC 1319–Installing and Administering Microsoft Windows Server Operating Systems .....	3
ITSY 2300–Operating System Security.....	3
ITSY 2301–Firewall and Network Security.....	3
ITSY 2341–Security Management Practices.....	3

**12**

### Occupational Certificate Total

**36**

Capstone Experience: ITSY 2341

## Information Technology Security Associate of Applied Science

First Term	Credit
ITSC 1309–Integrated Software Applications I.....	3
ITNW 1325–Fundamentals of Networking Technologies or ITMC 1301–Microsoft Windows 2000 Networking and Operating Systems or ITCC 1402–CCNA 1:Networking Basics.....	3-4
ITSC 1305–Introduction to PC Operating Systems.....	3
ITSE 1329–Programming Logic and Design .....	3
ENGL 1301–Composition I .....	3
PHED Activity .....	1

**13-14**

### Second Term

ITSW 2337–Advanced Database .....	3
ITNW 1348–Supporting Microsoft Client Operating systems or ITMC 1358–Supporting Microsoft Windows Client Network Operating Systems .....	3
ITSY 1300–Fundamentals of Information Security.....	3
ITSY 1342–Information Technology Security .....	3
MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	3
PHED Activity .....	1

**16**

### Third Term

ITSC 1307–UNIX Operating Systems I .....	3
ITNW 1354–Implementing and Supporting Services or ITMC 1319–Installing and Administering Windows Server Operating Systems .....	3
ITSY 2300–Operating Systems Security .....	3
ITSY 2301–Firewall and Network Security.....	3
*Humanities or Fine Arts .....	3
Speech .....	3

**18**

### Fourth Term

ITSY 2341–Security Management Practices.....	3
ITSY 2342–Incident Response and Handling .....	3
ITSY 2343–Computer Systems Forensics .....	3
ITSY 2359–Security Assessment and Auditing.....	3
ENGL 2311–Technical Report Writing.....	3
*Behavioral or Social Science .....	3

**18**

### Associate of Applied Science Total:

**68**

### Capstone Experience: ITSY 2359

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.

## Introductory Multimedia-Game Programming Occupational Certificate

### All Campuses

First Term	Credit
ITSE 1331–Introduction to Visual BASIC Programming .....	3
ITSE 1307–Introduction to C++ Programming .....	3
ITSE 2305–Windows Programming.....	3

**9**

### Second Term

ITSE 2331–Advanced C++ Programming.....	3
ITSE 2335–Application Problem Solving.....	3
ITSE 2357–Advanced Object-Oriented Programming.....	3

**9**

**Occupational Certificate Total** **18**  
**Capstone Experience:** ITSE 2357

## Introductory Game Design and Development Occupational Certificate

### All Campuses

<b>First Term</b>	<b>Credit</b>
ITSE 1329—Programming Logic and Design .....	3
ITSE 1331—Introduction to Visual BASIC Programming .....	3
ITSE 1302—Computer Programming—Intro to Game Programming....	3
	<b>9</b>

<b>Second Term</b>	<b>Credit</b>
ITSE 1305—Introduction to PC Operating Systems .....	3
ITSE 1307—Introduction to C++ Programming .....	3
INEW 2340—Object Oriented Design—Game Design .....	3
	<b>9</b>

**Occupational Certificate Total:** **18**  
**Capstone Experience:** INEW 2340

## Introductory Game Design and Development Certificate of Technology

### All Campuses

<b>First Term</b>	<b>Credit</b>
ITSE 1329—Programming Logic and Design .....	3
ITSE 1331—Introduction to Visual BASIC Programming .....	3
ITSE 1302—Computer Programming—Intro to Game Programming .....	3
ITSC 1305—Introduction to PC Operating Systems .....	3
	<b>12</b>

<b>Second Term</b>	<b>Credit</b>
ITSE 1307—Introduction to C++ Programming .....	3
INEW 2340—Object Oriented Design—Game Design .....	3
ITSE 2345—Data Structures for Game Programming.....	3
	<b>9</b>

<b>Third Term</b>	<b>Credit</b>
ITSE 2331—Advanced C++ Programming.....	3
ITSE 2305—Windows Programming.....	3
ITSE 2357—Advanced Object—Oriented Programming— 3D Engine Modules .....	3
INEW 2330—Comprehensive Software Project I: Planning and Design .....	3
	<b>12</b>

**Fourth Term**

INEW 2301—Macros for Applications—Game Engine Scripting .....	3
INEW 2332—Comprehensive Software Project II: Coding, Testing and Implementation .....	3
INEW 2386—Internship—Computer and Information Sciences, General or Approved Elective.....	3
	<b>9</b>

**Occupational Certificate Total:** **42**  
**Capstone Experience:** INEW 2330 or INEW 2332

### Approved Electives:

ITCC 1402	ITMC 1301	ITNW 1325	ITSC 2335
ITSE 2317	ITSE 2349	ITSE 1391	ITSY 1300
ITSY 1342			

## Beginning Database Specialist Occupational Certificate

### All Campuses

<b>First Term</b>	<b>Credit</b>
ITSE 1329—Programming Logic and Design .....	3
ITSE 1345—Introduction to Oracle.....	3
ITSE 2337—Advanced Database .....	3
ITNW 2354—Internet/Intranet Server.....	3
ITNW 1325—Fundamentals of Networking Technologies or ITMC 1301—Microsoft Windows Network and Operating System Essentials or ITCC 1402—CCNA 1:Networking Basics.....	3-4

**Occupational Certificate Total:** **15-16**  
**Capstone Experience:** ITNW 2354

## Database Design Certificate of Technology

<b>First Term</b>	<b>Credit</b>
ITSE 1309—Integrated Software Applications.....	3
ITSE 1329—Programming Logic and Design .....	3
ITSC 1305—Intro to PC Operating Systems .....	3
ITSE 1305—Web Authoring and Publishing.....	3
	<b>12</b>

<b>Second Term</b>	<b>Credit</b>
ITNW 1325—Fundamentals of Networking Technologies or ITMC 1301—Microsoft Windows Networking and Operating Systems Essentials or ITCC 1402—CCNA 1: Networking Basics.....	3-4
ITSE 1331—Introduction to Visual BASIC Programming .....	3
ITSW 2337—Advanced Database .....	3
	<b>9-10</b>

## Technical Programs

### Third Term

INTW 2354–Internet/Intranet Server.....	3
ITSE 1345–Introduction to Oracle SQL .....	3
ITNW 2355–Administering Microsoft SQL Server or ITMC 2303–Administering a Microsoft SQL Server Database.....	3
ITSY 1342–Information Technology Security .....	3
	<b>12</b>

### Fourth Term

IMED 2309–Internet Commerce.....	3
ITSC 2386–Internship–Computer and Information Sciences or Approved Elective.....	3
ITMC 2337–Programming a Microsoft SQL Server Database or ITSE 2354–Advanced Oracle PL/SQL Server .....	3
ITSE 2309–Database Programming .....	3
	<b>9</b>

**Certificate of Technology Total** **42**

**Capstone Experience:** ITMC 2337 or ITSE 2354 or ITSE 2309

Approved Electives:

ITMC 1319    ITNW 1354    ITNW 2305    ITSC 1307  
ITSC 2339

## Computer Information Systems Certificate of Specialization

### All Campuses

The certificates of specialization programs are designed to meet the needs of those students who desire the basic skills to enter the field of Computer Information Systems.

Students are eligible for the certificates indicated below upon completion of the designated courses with grades of at least C in each course. At least one-half of the credit hours must be earned at San Jacinto Community College District.

Application for these certificates should be made in the Behavioral/Social Sciences and Business Administration Division Office.

### Microcomputer Utilization

All Campuses	Credit
ITSC 1309–Integrated Software Applications I.....	3
ITSC 1305–Introduction to PC Operating Systems.....	3
ITSW 2334–Advanced Spreadsheet .....	3
ITSW 2337–Advanced Database .....	3
ITSC 2321–Integrated Software Applications II.....	3
	<b>15</b>

### Computer Support

All campuses	Credit
ITSC 1309–Integrated Software Applications I.....	3
ITSC 1305–Introduction to PC Operating Systems.....	3
ITNW 1325–Fundamentals of Networking Technologies or ITMC 1301–Microsoft Windows Network and Operating System Essentials or ITCC 1402–CCN! 1: Networking Basics.....	3-4
ITSC 1325–Personal Computer Hardware .....	3
ITNW 2354–Internet/Intranet Server.....	3
ITSC 1321–PC Operating Systems–Windows.....	3
	<b>18-19</b>

## Cosmetology

### Cosmetology Operator

### Associate of Applied Science Degree

### All Campuses

The Cosmetology Operator curriculum is designed to provide the student with basic knowledge and skills required to pass the Texas Department of Licensing and Regulations Examination for licensing and for entry-level employment in professional salons. Emphasis is placed on using those skills and that knowledge in a simulated salon. All key aspects of the beauty profession are addressed.

First Term	Credit
CSME 1354–Artistry of Hair Design I.....	3
CSME 1310–Introduction to Haircutting and Related Theory.....	3
CSME 1501–Orientation to Cosmetology.....	5
CSME 1553–Chemical Reformation and Related Theory.....	5
	<b>16</b>

### Second Term

CSME 1355–Artistry of Hair Design II.....	3
CSME 1547–Principles of Skin Care/Facials and Related Theory.....	5
CSME 2310–Intermediate Haircutting and Related Theory .....	3
CSME 2501–Principles of Hair Coloring and Related Theory.....	5
	<b>16</b>

### Third Term

CSME 2539–Advanced Hair Design.....	5
CSME 2541–Preparation for the State Licensing Examination .....	5
ITSC 1309–Integrated Software Applications I or BCIS 1305–Business Computer Applications .....	3
ENGL 1301–Composition I .....	3
PHED Activity .....	1
	<b>17</b>

## Fourth Term

MATH 1333—Contemporary Mathematics for Technical Programs .....	3
Speech .....	3
PHED Activity .....	1
*Humanities or Fine Arts .....	3
*Behavioral or Social Science .....	3
	<b>13</b>
<b>Associate of Applied Science Degree Total</b>	<b>62</b>

**Capstone Experience:** Texas Department of Licensing and Regulations Operator Licensure Examination

\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

## Cosmetology Operator Certificate of Technology

### All Campuses

The Cosmetology Operator Certificate of Technology is a course of study designed to meet the needs of those students who desire to enter the beauty industry in a minimum of time. The program will provide the student with the technical background and experience necessary to develop the skills and theoretical knowledge required to pass the Texas Department of Licensing and Regulations Examination for licensing and to gain entry-level employment in professional salons. Full-time students can earn the certificate of technology in one year. All key aspects of the cosmetology profession are addressed.

First Term	Credit	Clock Hours
CSME 1310—Introduction to Haircutting and Related Theory .....	3	112
CSME 1501—Orientation to Cosmetology.....	5	176
CSME 1553—Chemical Reformation and Related Theory .....	5	176
CSME 1354—Artistry of Hair Design I.....	3	112
	<b>16</b>	<b>576</b>

### Second Term

CSME 1355—Artistry of Hair Design II or CSME 2337—Advanced Cosmetology Techniques.....	3	112
CSME 2310—Intermediate Haircutting and Related Theory .....	3	112
CSME 1547—Principles of Skin Care/Facials and Related Theory .....	5	176
CSME 2501—Principles of Hair Coloring and Related Theory .....	5	176
	<b>16</b>	<b>576</b>

## Third Term

CSME 2539—Advanced Hair Design.....	5	176
CSME 2541—Preparation for the State Licensing Examination .....	5	176
	<b>10</b>	<b>352</b>

**Certificate of Technology Totals** **42** **1504**

**Capstone Experience:** Texas Department of Licensing and Regulations Operator Licensure Exam

## Cosmetology High School Operator

### Dual Credit

### Certificate of Technology

### All Campuses

The Cosmetology High School Operator Dual Credit Certificate of Technology Program is a course of study designed to meet the needs of high school students who desire to enter the beauty industry in a minimum of time. The program will provide the student with the technical background and experience necessary to develop the skills and theoretical knowledge required to pass the Texas Department of Licensing and Regulations Examination for licensing and to gain entry-level employment in professional salons. Part-time students can complete the certificate of technology in two years. All key aspects of the cosmetology profession are addressed.

First Term	Credit	Clock Hours
CSME 1310—Introduction to Haircutting and Related Theory .....	3	112
CSME 1505—Fundamentals of Cosmetology.....	5	112
	<b>8</b>	<b>224</b>

### Second Term

CSME 1553—Chemical Reformation and Related Theory .....	5	176
CSME 1354—Artistry of Hair Design I.....	3	112
	<b>8</b>	<b>288</b>

### Third Term

CSME 1355—Artistry of Hair Design II.....	3	112
CSME 2501—Principles of Hair Coloring and Related Theory .....	5	176
	<b>8</b>	<b>288</b>

### Fourth Term

CSME 2541—Preparation for the State Licensing Examination .....	5	176
CSME 2310—Intermediate Haircutting and Related Theory .....	3	112
	<b>8</b>	<b>288</b>

**Certificate of Technology Totals** **32** **1088**

# Technical Programs

**Capstone Experience:** Texas Department of Licensing and Regulations Operator Licensure Exam

## Cosmetology Instructor Associate of Applied Science Degree

### All Campuses

This program is designed to provide classroom management and instructional training for licensed cosmetologists, manicurists, or facialists who already possess skills in their respective fields. This program will train students for professional positions as cosmetology instructors in the private and public sectors of education.

To enroll in the cosmetology instructor courses listed below, the student must be 18 years of age, have a valid Texas Department of Licensing and Regulations License, and provide evidence of a high school diploma or GED equivalent. Two years work experience is preferred.

First Term	Credit
CSME 1435—Orientation to the Instruction of Cosmetology.....	4
CSME 1534—Cosmetology Instructor I.....	5
ENGL 1301—Composition I.....	3
Speech.....	3
BUSG 2309—Small Business Management.....	3
	<b>18</b>

Second Term	
CSME 2414—Cosmetology Instructor II.....	4
CSME 2515—Cosmetology Instructor III.....	5
HRPO 1311—Human Relations or Free Elective.....	3
ENGL 1302—Composition II or ENGL 2311—Technical Report Writing.....	3
PHED Activity.....	1
	<b>16</b>

Third Term	
CSME 2445—Instructional Theory and Clinic Operations.....	4
CSME 2544—Cosmetology Instructor IV.....	5
ITSC 1309—Integrated Software Applications I or BCIS 1305—Business Computer Applications.....	3
PHED Activity.....	1
	<b>13</b>

### Fourth Term

MATH 1333—Contemporary Mathematics for Technical Programs.....	3
*Behavioral or Social Science.....	3
*Humanities or Fine Arts.....	3
Approved Elective.....	3
Approved Elective.....	3
	<b>15</b>
<b>Associate of Applied Science Degree Total</b>	<b>62</b>

**Credential Exam:** Texas Department of Licensing and Regulations Instructor Licensure Examination

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

### Approved Electives

ARTS 1316	CSME 1330	CSME 1421	CSME 1457
CSME 1520	CSME 1531	CSME 1541	CSME 1545
CSME 1552	CSME 2430	CSME 2431	BMGT 1301

## Cosmetology Instructor Certificate of Technology

### All Campuses

The Cosmetology Instructor Certificate of Technology Program is designed to meet the needs of those students who desire to enter the world of education in a minimum of time. This program will provide the student with the training necessary to provide proper instruction in varied classroom situations. Emphasis will be on classroom management, curriculum development, evaluation methods, and the use of media in the classroom.

Before registering for the cosmetology instructor courses listed below, the student must have a valid Texas Department of Licensing and Regulations License, and must provide evidence of a high school diploma or GED equivalent. Two years work experience is preferred.

First Term	Credit	Clock Hours
CSME 1435—Orientation to the Instruction of Cosmetology.....	4	112
CSME 1534—Cosmetology Instructor I.....	5	144
	<b>9</b>	<b>256</b>

### Second Term

CSME 2414—Cosmetology Instructor II.....	4	112
CSME 2515—Cosmetology Instructor III.....	5	176
	<b>9</b>	<b>256</b>



All students considering transfer should consult with a counselor regarding the specific requirements of various universities for this major.

## Law Enforcement Option

### Associate of Applied Science Degree

The Criminal Justice Department at San Jacinto Community College District has voluntarily implemented the POTAAC agreement to articulate 13 hours of college credit for licensed peace officers in Texas that meet the following qualifications:

1. Successfully completed an approved 560-hour law enforcement training program.
2. Successfully passed the Texas Commission on Law Enforcement Officers Standards and Education (TCLEOSE) licensing exam after 1983.
3. Successfully completed six (6) semester hours of criminal justice at San Jacinto Community College District.

Interested and qualified students should contact the department chair prior to enrollment.

#### Central and North Campuses

The Law Enforcement Option is for those students planning careers in criminal law, federal, state or local law enforcement, and for other students interested in learning about the operation of the criminal justice system.

First Term	Credit
CRIJ 1301/CJSA 1322—Introduction to Criminal Justice .....	3
CRIJ 2313/CJCR 1307—Correctional Systems and Practices.....	3
CRIJ 2314/CJSA 1342—Criminal Investigation .....	3
ENGL 1301—Composition I .....	3
Approved Elective .....	3
PHED Activity .....	1
	<b>16</b>
<b>Second Term</b>	
CRIJ 1307/CJSA 1312—Crime in America .....	3
Approved Elective .....	3
CJLE 1333—Traffic Law and Investigation.....	3
Speech .....	3
PSYC 2301—General Psychology .....	3
PHED Activity .....	1
	<b>16</b>

#### Third Term

*Humanities or Fine Arts .....	3
CRIJ 1306/CJSA 1313—Court Systems and Practices .....	3
CRIJ 1310/CJSA 1327—Fundamentals of Criminal Law .....	3
SOCI 1301—Introduction to Sociology .....	3
ENGL 2311—Technical Report Writing .....	3
	<b>15</b>

#### Fourth Term

CRIJ 2323/CJSA 2300—Legal Aspects of Law Enforcement .....	3
CRIJ 2328/CJSA 1359—Police Systems and Practices .....	3
Approved Elective .....	3
BCIS 1305 Business Computer Applications or ITSC 1309—Integrated Software Applications I .....	3
MATH 1314—College Algebra or MATH 1333—Contemporary Mathematics for Technical Programs .....	3
	<b>15</b>
<b>Associate of Applied Science Degree Total</b>	<b>62</b>

**Capstone Experience: CRIJ 2323/CJSA 2300**

#### Approved Electives

CJLE 1327	CJSA 1308	CJSA 1348	CJSA 1351
CJSA 2388	CRIJ 1313/CJSA 1317	EMSP 1305	
PSYC 2319	SPAN 1411		

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*

## Core Criminal Justice

### Certificate of Technology

#### Central and North Campuses Only

First Term	Credit
CRIJ 1301—Introduction to Criminal Justice.....	3
CRIJ 1306—Court Systems and Practices .....	3
CRIJ 1310 Fundamentals of Criminal Law.....	3
Approved Elective .....	3
	<b>12</b>
<b>Second Term</b>	
Approved Elective .....	3
CRIJ 2313—Corrections Systems and Practices .....	3
CRIJ 2328—Police Systems and Practices .....	3
	<b>9</b>
<b>Certificate of Technology Total</b>	<b>21</b>
<b>Capstone Experience: CRIJ 2313 or CRIJ 2328</b>	

#### Approved Electives

CRIJ 1307	CRIJ 1313	CRIJ 2301	CRIJ 2314
CRIJ 2323			

## Law Enforcement Option Certificate of Technology

### Central and North Campuses Only

First Term	Credit
CRIJ 1301/CJSA 1322—Introduction to Criminal Justice .....	3
CRIJ 1306/CJSA 1313—Court Systems and Practices .....	3
CJSA 1351—Use of Force .....	3
CRIJ 2328/CJSA 1359—Police Systems and Practices .....	3
CJLE 1327—Interviewing and Report Writing for Criminal Justice Professions.....	3
CRIJ 2314/CJSA 1342—Criminal Investigation .....	3
	<b>18</b>

### Second Term

CRIJ 2323/CJSA 2300—Legal Aspects of Law Enforcement .....	3
CJLE 1333—Traffic Law and Investigation.....	3
CJSA 1348—Ethics in Criminal Justice.....	3
CRIJ 1310/CJSA 1327—Fundamentals of Criminal Law .....	3
Approved Elective .....	3
	<b>15</b>
<b>Certificate of Technology Total</b>	<b>33</b>

**Capstone Experience:** CRIJ 2323/CJSA 2300

#### Approved Electives

CJSA 1308	CJSA 2388	CRIJ 1307/ CJSA 1312
CRIJ 1313/ CJSA 1317	CRIJ 2313/CJCR 1307	EMSP 1305
SPAN 1411		

## Academic Peace Officer Licensure Option Certificate of Technology

### Central and North Campuses Only (Not offered after Spring 2006)

This option is for students who plan a career as a Texas Law Enforcement Officer and who wish to sit for the state licensing exam based on their college career paths. Students must have a completed associates degree prior to the issuance of a letter of eligibility to sit for the State's license exam. Therefore, students should have a completed or near completed associates degree before entering the Texas Peace Officer Sequencing Courses. Interested and qualified students should contact the department chair for evaluation.

### First Term

First Term	Credit
CRIJ 1301/CJSA 1322—Introduction to Criminal Justice .....	3
CRIJ 1306/CJSA 1313—Court Systems and Practices .....	3
CRIJ 2328/CJSA 1359—Police Systems and Practices .....	3
CRIJ 1307/CJSA 1312—Crime in America.....	3
CRIJ 2314/CJSA 1342—Criminal Investigation .....	3
	<b>15</b>

### Second Term

Second Term	Credit
CRIJ 1310/CJSA 1327—Fundamentals of Criminal Law .....	3
CRIJ 2323/CJSA 2300—Legal Aspects of Law Enforcement.....	3
	<b>6</b>

### Third Term

Upon completion, or near completion of the associate degree, students wishing to follow this option should enroll in the Texas Sequencing courses.

CJLE 1394—Special Topics in Law Enforcement/Police Science .....	3
CJLE 2520—Texas Peace Officer Procedures .....	5
CJLE 2521—Texas Peace Officer Law .....	5
CJLE 2522—Texas Peace Officer Skills .....	5
	<b>19</b>

**Certificate of Technology Total** **39**

**Capstone Experience:** CJLE 1394

- Students seeking this option should contact the department chair.
- Students must meet all qualifications to be licensed under the current Texas Commission on Law Enforcement Officer Standards and Education Rules for Peace Officers ([http://www.tcleose.state.tx.us/Commission\\_Rules//Rules\\_6-1-2004.pdf](http://www.tcleose.state.tx.us/Commission_Rules//Rules_6-1-2004.pdf))

The Criminal Justice Department at San Jacinto Community College District has voluntarily implemented the POTAAC agreement to articulate 18 hours of college credit for licensed peace officers in Texas that meet the following qualifications:

1. Successfully completed an approved 560-hour law enforcement training program.
2. Successfully passed the Texas Commission on Law Enforcement Officers Standards and Education (TCLEOSE) licensing exam after 1983.
3. Successfully completed six (6) semester hours of criminal justice at San Jacinto Community College District.

Interested and qualified students should contact the department chair for evaluation.

# Technical Programs

## Social Services Option

### Associate of Applied Science Degree

#### Central and North Campuses Only

First Term	Credit
CRIJ 1301/CJSA 1322—Introduction to Criminal Justice .....	3
CRIJ 2313/CJCR 1307—Correctional Systems and Practices.....	3
CRIJ 2314/CJSA 1342—Criminal Investigation .....	3
ENGL 1301—Composition I .....	3
BCIS 1305—Business Computer Applications or ITSC 1309—Integrated Software Applications I .....	3
PHED Activity .....	1
	<b>16</b>

#### Second Term

CRIJ 1307/CJSA 1312—Crime in America .....	3
CJCR 1304—Probation and Parole or CRIJ 2301 Community Resources in Corrections .....	3
CRIJ 1313/CJSA 1317—Juvenile Justice System .....	3
Speech .....	3
PSYC 2301—General Psychology .....	3
PHED Activity .....	1
	<b>16</b>

#### Third Term

CRIJ 1306/CJSA 1313—Court Systems and Practices .....	3
CRIJ 1310/CJSA 1327—Fundamentals of Criminal Law .....	3
SOCI 1301—Introduction to Sociology .....	3
ENGL 2311—Technical Report Writing .....	3
Approved Elective .....	3
	<b>15</b>

#### Fourth Term

CRIJ 2328/CJSA 1359—Police Systems and Practices .....	3
CJCR 2325—Legal Aspects of Corrections .....	3
*Humanities or Fine Arts .....	3
Approved Elective .....	3
MATH 1314—College Algebra or MATH 1333—Contemporary Mathematics for Technical Programs .....	3
	<b>15</b>

**Associate of Applied Science Degree Total** **62**

**Capstone Experience: CJCR 2325**

#### Approved Electives

CJLE 1327	CJSA 1348	CJSA 2300	CJSA 2388
CRIJ 2323	PSYC 2319	SPAN 1411	

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.

## Social Services Option

### Certificate of Technology

#### Central and North Campuses Only

First Term	Credit
CRIJ 1301/CJSA 1322—Introduction to Criminal Justice .....	3
CRIJ 1306/CJSA 1313—Court Systems and Practices .....	3
CRIJ 2328/CJSA 1359—Police Systems and Practices .....	3
CRIJ 2323/CJSA 2300—Legal Aspects of Law Enforcement .....	3
CRIJ 2301—Community Resources in Corrections or CJCR 2324—LE-Community Resources in Corrections.....	3
CRIJ 1313/CJSA 1317—Juvenile Justice System .....	3
	<b>18</b>

#### Second Term

CRIJ 1307/CJSA 1312—Crime in America .....	3
CRIJ 1310/CJSA 1327—Fundamentals of Criminal Law .....	3
Approved Elective .....	3
CJCR 2325—Legal Aspects of Corrections .....	3
CJLE 1327—Interviewing and Report Writing for Criminal Justice Professions.....	3
	<b>15</b>
<b>Certificate of Technology Total</b>	<b>33</b>

**Capstone Experience: CJCR 2325**

#### Approved Electives

CJCR 1304	CJSA 1348	CJSA 2388	EMSP 1305
CRIJ 2313/CJCR 1307	PSYC 2319	SPAN 1411	

## Corrections Option

### Certificate of Technology

#### Central and North Campuses Only

First Term	Credit
CJLE 1327—Interviewing and Report Writing for Criminal Justice Professions.....	3
CRIJ 1306/CJSA 1313—Court Systems and Practices .....	3
CRIJ 1301/CJSA 1322—Introduction to Criminal Justice .....	3
CRIJ 2328/CJSA 1359—Police Systems and Practices .....	3
CRIJ 2323/CJSA 2300—Legal Aspects of Law Enforcement .....	3
CRIJ 2301/CJCR 2324—Community Resources in Corrections .....	3
	<b>18</b>

#### Second Term

CRIJ 2313/CJCR 1307—Correctional Systems and Practices.....	3
CRIJ 1307/CJSA 1312—Crime in America .....	3
CRIJ 1310/CJSA 1327—Fundamentals of Criminal Law .....	3
CJCR 2325—Legal Aspects of Corrections .....	3
Approved Elective .....	3
	<b>15</b>

**Certificate of Technology Total** **33**  
**Capstone Experience: CJCR 2325**

Approved Electives

CJSA 1348      CJSA 2388      EMSP 1305      SPAN 1411  
 PSYC 2319

## Crime Scene Technician Certificate of Technology

**Central and North Campuses Only**

<b>First Term</b>	<b>Credit</b>
CRIJ 1301/CJSA 1322–Introduction to Criminal Justice .....	3
CRIJ 1306/CJSA 1313–Court Systems and Practices .....	3
CRIJ 2328/CJSA 1359–Police Systems and Practices .....	3
CRIJ 1310/CJSA 1327–Fundamentals of Criminal Law .....	3
CRIJ 2314/CJSA 1342–Criminal Investigations .....	3
CJSA 1308–Criminalistics I.....	<u>3</u>
	<b>18</b>
<b>Second Term</b>	
DFTG 1409–Basic Computer Aided Drafting .....	4
CJSA 2323–Criminalistics II .....	3
Approved Elective .....	3
CJLE 1327–Interviewing and Report Writing for Criminal Justice Professions.....	3
CRIJ 2323/CJSA 2300–Legal Aspects of Law Enforcement.....	<u>3</u>
	<b>16</b>
<b>Certificate of Technology Total</b>	<b>34</b>

**Capstone: CRIJ 2323/CJSA 2300**

Approved Electives

CJSA 2388      CRIJ 1307/CJSA 1312      SPAN 1411

## Basic Fire and Arson Investigator Certificate

**Central and North Campuses Only**

Persons possessing a regular Texas Peace Officer License issued by TCLEOSE (Texas Commission on Law Enforcement Officer Standards and Education) may enroll in the fire and arson investigator courses FIRT 1303 and FIRT 2333, and then complete the curriculum to become eligible for an Arson Investigator Credential through the Texas Commission on Fire Protection: Persons with a Texas Peace Officer License and Fire and Arson Investigator Credential may work in a police department in the Fire and Arson Investigator Division. The Texas Peace Officer License may be obtained by completing the Certificate of Technology Peace Officer Licensure Option and passing the required state examination.

# Culinary Arts

## Culinary Arts - Chef Training Associate of Applied Science Degree

**Central Campus Only**

The Culinary Arts Program provides basic education and training for cooks and apprentice chefs. Sequential courses provide for development of technical food preparation and service skills, understanding of the principles of food and beverage composition, experience in the use and maintenance of professional food service equipment, and basic development of supervisory skills.

<b>First Term</b>	<b>Credit</b>
CHEF 1305–Sanitation and Safety.....	3
CHEF 1401–Basic Food Preparation.....	4
RSTO 1325–Purchasing for Hospitality Operations .....	3
PSTR 1401–Fundamentals of Baking.....	4
*MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	<u>3</u>
	<b>17</b>
<b>Second Term</b>	
IFWA 1305–Food Service Equipment and Planning.....	3
RSTO 1313–Hospitality Supervision .....	3
RSTO 2405–Management of Food Production and Service.....	4
CHEF 2402–Saucier.....	4
Speech .....	<u>3</u>
	<b>17</b>

<b>Third Term</b>	
Approved Electives .....	10
IFWA 1318–Nutrition for the Food Service Professional or HECO 1322–Principles of Nutrition .....	3
ENGL 1301–Composition I .....	3
PHED Activity .....	<u>1</u>
	<b>17</b>

<b>Fourth Term</b>	
RSTO 2301–Principles of Food and Beverage Controls.....	3
CHEF 2365–Practicum–Culinary Arts or RSTO 2365–Practicum Food and Beverage/Restaurant Operations Manager.....	3
**Behavioral or Social Science .....	3
**Humanities or Fine Arts.....	3
PSTR 2431–Advanced Pastry Shop.....	4
PHED Activity .....	<u>1</u>
	<b>17</b>

**Associate of Applied Science Degree Total** **68**  
**Capstone Experience: CHEF 2365 or RSTO 2365**

# Technical Programs

\* Remedial courses (those courses which have numbers beginning with 0) do not apply toward the associate degree.

\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

## Approved Electives

CHEF 1345      CHEF 2365      IFWA 2441      RSTO 1301  
CHEF 1313

## Culinary Arts - Chef Training Certificate of Technology

### Central Campus only

First Term	Credit
CHEF 1305—Sanitation and Safety.....	3
CHEF 1401—Basic Food Preparation.....	4
RSTO 1313—Hospitality Supervision.....	3
RSTO 1325—Purchasing for Hospitality Operations.....	3
IFWA 1318—Nutrition for the Food Service Professional or HECO 1322—Principles of Nutrition.....	3
	<b>16</b>

Second Term	Credit
RSTO 2301—Principles of Food and Beverage Controls.....	3
PSTR 1401—Fundamentals of Baking.....	4
Approved Electives.....	9
	<b>16</b>

Third Term	Credit
CHEF 2365—Practicum—Culinary Arts or RSTO 2365—Practicum—Food and Beverage/Restaurant Operations Manager.....	3
Approved Electives.....	7
	<b>10</b>

**Certificate of Technology Total** **42**

**Capstone Experience:**      CHEF 2365 or RSTO 2365

## Approved Electives

CHEF 1313      CHEF 1345      CHEF 2365      CHEF 2402  
IFWA 1305      IFWA 2441      PSTR 2431      RSTO 1301  
RSTO 2365      RSTO 2405

## Culinary Arts Certificate of Specialization

Application for these certificates should be made in the department office.

### Central Campus Only

#### Assistant Cook

CHEF 1305—Sanitation and Safety  
CHEF 1401—Basic Food Preparation  
RSTO 2431—Food Service Management

### Baker

CHEF 1305—Sanitation and Safety  
PSTR 1401—Fundamentals of Baking  
PSTR 2431—Advanced Pastry Shop  
RSTO 1313—Hospitality Supervision  
RSTO 2301—Principles of Food and Beverage Controls

### Baker's Helper

CHEF 1305—Sanitation and Safety  
PSTR 1401—Fundamentals of Baking  
PSTR 2431—Advanced Pastry Shop

### Basic Cooking

CHEF 1305—Sanitation and Safety  
IFWA 1305—Food Service Equipment and Planning  
RSTO 2301—Principles of Food and Beverage Controls  
CHEF 1401—Basic Food Preparation  
RSTO 2431—Food Service Management

### Specialty Foods

CHEF 1305—Sanitation and Safety  
RSTO 1313—Hospitality Supervision  
CHEF 1401—Basic Food Preparation  
RSTO 2405—Management of Food Production and Service  
IFWA 2441—Specialized Food Preparation or  
CHEF 1345—International Cuisine  
CHEF 2402—Saucier

### Food Protection Management

#### Central Campus Only

CHEF 1305—Sanitation and Safety Management  
(Approved by Texas Department of State Health Services Texas  
Department of State Health Services, December 31, 1989)

**Note:** A grade of 75 or above on the final exam is required for certification.

## Culinary Arts - Chef Apprentice Training Associate of Applied Science Degree

### North Campus Only

The Culinary Arts—Chef Apprenticeship Training Program provides basic education and training for apprentice chefs. Sequential courses provide for development of technical food preparation and service skills, understanding of the principles of food and beverage composition, experience in the use and maintenance of professional food service equipment, and development of basic supervisory skills.

First Term	Credit
IFWA 2446—Quantity Procedures.....	4
CHEF 2301—Intermediate Food Preparation.....	3
PSTR 1301—Fundamentals of Baking.....	3
CHEF 1205—Sanitation and Safety.....	2
CHEF 1301—Basic Food Preparation.....	3
PHED Activity.....	1

**16**

## Second Term

CHEF 1345—International Cuisine .....	3
RSTO 2431—Food Service Management .....	4
RSTO 1313—Hospitality Supervision .....	3
RSTO 2301—Principles of Food and Beverage Controls .....	3
PSTR 2331—Advanced Pastry Shop .....	3

**16**

## Summer Term

CHEF 1310—Garde Manger .....	3
IFWA 1318—Nutrition for the Food Service Professional .....	3
CHEF 2365—Practicum (or Field Experience)—Culinary Arts/Chef Training .....	3

**9**

## Third Term

ENGL 1301—Composition I .....	3
SPCH 1321—Business and Professional Speech .....	3
Behavioral/Social Science .....	3
PHED Activity .....	1
MATH 1314—College Algebra or MATH 1333—Contemporary Mathematics for Technical Programs .....	3

**13**

## Fourth Term

MRKG 1311—Principles of Marketing .....	3
*Behavioral or Social Science .....	3
*Humanities or Fine Arts .....	3

**9**

## Associate of Applied Science Degree Total

**63**

Capstone Experience: CHEF 2365

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

## Chef's Apprenticeship Training

### Culinary Arts Chef's Training Certificate of Technology

#### North Campus Only

First Term	Credit
IFWA 2446—Quantity Procedures .....	4
CHEF 1205—Sanitation and Safety .....	2
CHEF 1301—Basic Food Preparation .....	3
PSTR 1301—Fundamentals of Baking .....	3
CHEF 2301—Intermediate Food Preparation .....	3

**15**

## Second Term

CHEF 1345—International Cuisine .....	3
RSTO 2431—Food Service Management .....	4
RSTO 1313—Hospitality Supervision .....	3
RSTO 2301—Principles of Food and Beverage Controls .....	3
PSTR 2331—Advanced Pastry Shop .....	3

**16**

## Summer Session

IFWA 1318—Nutrition for the Food Service Professional .....	3
CHEF 1310—Garde Manger .....	3
CHEF 2365—Practicum (or Field Experience)—Culinary Arts/Chef Training .....	3

**9**

## Certificate of Technology Total

**40**

Capstone Experience: CHEF 2365

### Culinary Arts

#### Pastry and Garde Manger

#### Marketable Skills Achiever Certification

#### North Campus Only

PSTR 1301—Fundamentals of Baking .....	3
CHEF 1205—Sanitation and Safety .....	2
PSTR 2331—Advanced Pastry Shop .....	3
CHEF 1310—Garde Manger .....	3

#### Marketable Skills Achiever Certificate Total

**11**

### Culinary Arts

#### Certificate of Specialization

Application for these certificates should be made in the North Health Sciences and Consumer Services Division Office.

#### North Campus

##### Assistant Cook

CHEF 1205—Sanitation and Safety
CHEF 1301—Basic Food Preparation
RSTO 2405—Management of Food Production and Services Baker
PSTR 1301—Fundamentals of Baking
PSTR 2331—Advanced Pastry Shop
RSTO 1313—Hospitality Supervision
RSTO 2301—Principles of Food and Beverage Controls

##### Baker's Helper

CHEF 1205—Sanitation and Safety
PSTR 1301—Fundamentals of Baking
PSTR 2331—Advanced Pastry Shop

# Technical Programs

## Basic Cooking

- CHEF 1205—Sanitation and Safety
- IFWA 1205—Food Service Equipment and Planning
- RSTO 1325—Purchasing for Hospitality Operations
- CHEF 1301—Basic Food Preparation
- RSTO 2405—Management of Food Production and Service

## Garde Manger/Specialty Foods

- CHEF 1205—Sanitation and Safety
- RSTO 1313—Hospitality Supervision
- CHEF 1301—Basic Food Preparation
- RSTO 2431—Food Service Management
- CHEF 1310—Garde Manger

## Diesel Technology

### Diesel Technology

#### Associate of Applied Science Degree

##### North Campus Only

Diesel Technology is a course of study designed to prepare the student for a career in the repair and maintenance of diesel engines, heavy truck transmissions, brakes and differentials.

A graduate of this two-year program is awarded the associate of applied science degree.

First Term	Credit
DEMR 1306—Diesel Engine I .....	3
DEMR 1410—Diesel Engine Testing and Repair I .....	4
DEMR 1405—Basic Electrical Systems.....	4
DEMR 1423—Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair .....	4
PHED Activity .....	1
	<b>16</b>

##### Second Term

DEMR 2412—Diesel Engine Testing and Repair II .....	4
DEMR 1421—Power Train I .....	4
DEMR 1317—Basic Brake Systems.....	3
DEMR 2432—Electronic Controls .....	4
PHED Activity .....	1
	<b>16</b>

##### Third Term

DEMR 1301—Shop Safety and Procedures.....	3
DEMR 1449—Diesel Engine II.....	4
DEMR 2266—Field Experience—Diesel Engine Mechanic and Repair.....	2
DEMR 2334—Advanced Diesel Tune-up and Troubleshooting .....	3
ENGL 1301—Composition I .....	3
	<b>15</b>

## Fourth Term

MATH 1333—Contemporary Mathematics for Technical Programs ...	3
ENGL 2311—Technical Report Writing .....	3
SPCH 1321—Business and Professional Speech .....	3
SOCI 1306—Social Problems .....	3
*Humanities or Fine Arts .....	3
	<b>15</b>

### Associate of Applied Science Degree Total

**62**

#### Capstone Experience: DEMR 2266

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*

## Diesel Technology

### Certificate of Technology

#### North Campus Only

First Term	Credit
DEMR 1306—Diesel Engine I .....	3
DEMR 1410—Diesel Engine Testing and Repair I .....	4
DEMR 1405—Basic Electrical Systems.....	4
DEMR 1423—Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair .....	4
	<b>15</b>

#### Second Term

DEMR 2412—Diesel Engine Testing and Repair II .....	4
DEMR 1421—Power Train I .....	4
DEMR 1317—Basic Brake Systems.....	3
DEMR 2432—Electronics Controls.....	4
	<b>15</b>

#### Third Term

DEMR 1301—Shop Safety and Procedures.....	3
DEMR 1449—Diesel Engine II.....	4
DEMR 2266—Practicum (or Field Experience) - Diesel Mechanics Technology/Technician .....	2
DEMR 2334—Advanced Diesel Tune-up and Troubleshooting .....	3
	<b>12</b>

### Certificate of Technology Total

**42**

#### Capstone Experience: DEMR 2266

## Dietetics

### Food Service Management

#### Associate of Applied Science Degree

##### Central Campus Only

The Food Service Management program is designed to prepare students for employment in food service operations

as managers, supervisors, dietary technicians or in other related occupations in the food industry. Graduates will have an understanding of problems in these fields and experience in use of materials and equipment related to them, and will have participated in on-the-job training to practice skills and acquire experience.

<b>First Term</b>	<b>Credit</b>
RSTO 1325–Purchasing for Hospitality Operations .....	3
CHEF 1313–Food Service Operation/Systems .....	3
CHEF 1401–Basic Food Preparation .....	4
CHEF 1305–Sanitation and Safety .....	3
IFWA 1318–Nutrition for the Food Service Professional or HECO 1322–Principles of Nutrition .....	3
PHED Activity .....	1
	<b>17</b>
<b>Second Term</b>	
RSTO 1313–Hospitality Supervision .....	3
RSTO 2405–Management of Food Production and Service .....	4
Approved Electives .....	8
	<b>15</b>
<b>Third Term</b>	
Approved Electives .....	6
FDNS 1309–Nutrition in the Community .....	3
SPCH 1321–Business and Professional Speech .....	3
ENGL 1301–Composition I .....	3
PHED Activity .....	1
	<b>16</b>
<b>Fourth Term</b>	
RSTO 2365–Practicum–Food and Beverage/Restaurant Operations Manager .....	3
RSTO 2301–Principles of Food and Beverage Controls .....	3
*MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	3
**Behavioral or Social Science .....	3
**Humanities or Fine Arts .....	3
	<b>15</b>
<b>Associate of Applied Science Degree Total</b>	<b>63</b>
<b>Capstone Experience: RSTO 2365</b>	

\* Remedial courses (those courses beginning with 0) do not apply toward the associate degree.

\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

#### Approved Electives

CHEF 1345	CHEF 2365	CHEF 2402	DITA 1400
DITA 1401	FDNS 1168	FDNS 1345	IFWA 1305
IFWA 2441	FMLD 1372	PSTR 1401	PSTR 2431

## Food Service Management Certificate of Technology

### Central Campus Only

<b>First Term</b>	<b>Credit</b>
CHEF 1305–Sanitation and Safety .....	3
CHEF 1313–Food Service Operation/Systems .....	3
CHEF 1401–Basic Food Preparation .....	4
FDNS 1309–Nutrition in the Community .....	3
RSTO 1313–Hospitality Supervision .....	3
	<b>16</b>

### Second Term

IFWA 1318–Nutrition for the Food Service Professional or HECO 1322–Principles of Nutrition .....	3
RSTO 1325–Purchasing for Hospitality Operations .....	3
RSTO 2365–Practicum–Food and Beverage/Restaurant Operations Manager .....	3
RSTO 2301–Principles of Food and Beverage Controls .....	3
RSTO 2405–Management of Food Production and Service .....	4
	<b>16</b>

### Third Term

Approved Electives .....	10
	<b>10</b>

### Certificate of Technology Total

<b>Capstone Experience: RSTO 2365</b>	<b>42</b>
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#### Approved Electives

CHEF 1345	CHEF 2365	CHEF 2402	DITA 1400
DITA 1401	FDNS 1168	IFWA 1305	IFWA 2441
FMLD 1372	PSTR 1401	PSTR 2431	

## Food Service

### Certificates of Specialization

#### Dietary Manager

##### Central Campus Only

The 448-hour certificate is designed to prepare students to become dietary managers by meeting the requirements of the Dietary Managers Association. Students entering the program should be employed in a food service position and have the approval and participation of a registered dietitian as preceptor. Students who complete the program will receive a certificate from San Jacinto Community College District and will be eligible to sit for the certification exam and for membership in the Dietary Managers Association.

Upon successful completion of the two-term program, the student will be qualified to work under the guidance of a

# Technical Programs

registered dietitian to participate in providing food management or nutrition care services.

## Spring Term

DITA 1400–Dietary Manager I and co-requisite  
FDNS 1168–Practicum–Dietetics/Human Nutritional Services

## Fall Term

DITA 1401–Dietary Manager II and co-requisite  
FDNS 1168–Practicum–Dietetics/Human Nutritional Services

## School Food Service Study

### Central Campus Only

This certificate is planned to train food service personnel employed by schools, hospitals and similar institutions. The curriculum meets the standards set by the Texas School Food Service Association for school personnel training and certification.

IFWA 1318–Nutrition for the Food Service Professional or  
HECO 1322–Principles of Nutrition (Unit 2)  
RSTO 1313–Hospitality Supervision (Unit 5)  
CHEF 1313–Food Service Operation/Systems (Unit 4)  
CHEF 1401–Basic Food Preparation (Unit 1)  
RSTO 2405–Management of Food Production and Service (Unit 3)

## Food Service Specialty

### Central Campus Only

These certificates are designed to meet the requirements of the Texas School Food Service Association levels of certification.

### Food Service Level I

CHEF 1305–Sanitation and Safety

### Food Service Level II

CHEF 1401–Basic Food Preparation  
RSTO 2405–Management of Food Production and Service  
RSTO 1313–Hospitality Supervision

### Food Service Level III

IFWA 1305–Food Service Equipment and Planning  
RSTO 1325–Purchasing for Hospitality Operations  
RSTO 1317–Nutrition for the Food Service Professional

### Food Service Level IV

CHEF 1313–Food Service Operation/Systems  
FDNS 1309–Nutrition in the Community  
RSTO 2301–Principles of Food and Beverage Controls  
PSTR 1401–Fundamentals of Baking or  
PSTR 2431–Advanced Pastry Shop

CHEF 2402–Saucier or  
IFWA 2441–Specialized Food Preparation

**Note:** Students completing the above 4 levels will also be eligible to apply for the Certificate of Technology in Dietetics/Food Service Management.

## Dietetic Technician Nutrition Care Associate of Applied Science Degree

**Note:** This program will no longer accept new students beginning Fall 2007. For questions please contact the program director at 281-476-1501 ext 1498.

### Central Campus Only

The Dietetic Technician Associate of Applied Science degree is designed to provide students with the necessary knowledge, skills, and abilities to become qualified practitioners at the technician level in the area of dietetics. Program graduates should be able to effectively assist a registered dietitian in providing food service and nutrition care to individuals and groups in the community. The Dietetic Technician Program at San Jacinto Community College District is currently granted developmental accreditation by the Commission on Accreditation of Dietetics Education of The American Dietetic Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995, 312-899-4876. Students graduating from an approved program are eligible for membership in The American Dietetic Association, and to take the registration examination to become a Dietetic Technician Registered (DTR).

### First Term

	Credit
FDNS 2233–Dietetic Seminar .....	2
FDNS 1103–Introduction to Dietetics .....	1
HECO 1322–Principles of Nutrition .....	3
CHEF 1305–Sanitation and Safety .....	3
CHEF 1401–Basic Food Preparation .....	4
ENGL 1301–Composition I .....	3
PHED Activity .....	1
	<b>17</b>

### Second Term

FDNS 1345–Medical Nutrition Therapy I .....	3
FDNS 1360–Clinical Dietetics/Human Nutritional Services I .....	3
RSTO 2301–Principles of Food and Beverage Controls .....	3
RSTO 2405–Management of Food Production and Service .....	4
*Humanities or Fine Arts .....	3
PHED Activity .....	1
	<b>17</b>

### Summer Term

**MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	3
	<b>3</b>

## Third Term

FDNS 2360—Clinical Dietetics/Human Nutritional Services II.....	3
FDNS 1309—Nutrition in the Community.....	3
FDNS 1346—Medical Nutrition Therapy II.....	3
RSTO 1313—Hospitality Supervision or CHEF 1313—Food Service Operation/Systems.....	3
Approved Science Elective.....	4
	<b>16</b>

## Fourth Term

FDNS 1447—Medical Nutrition Therapy III.....	4
FDNS 2460—Clinical Dietetics/Human Nutritional Serv. III.....	4
SPCH 1321—Business and Professional Speech.....	3
*Behavioral or Social Science.....	3
Approved Science Elective.....	4
	<b>18</b>
<b>Associate of Applied Science Degree Total</b>	<b>71</b>

**Capstone Experience: FDNS 2460**

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

*\*\*Remedial courses (those courses which have numbers beginning with 0) do not apply toward the associate degree.*

Approved Science Electives:

BIOL 1413	BIOL 2401	BIOL 2402	BIOL 2420
CHEM 1411	CHEM 1412		

## Dietetic Technician Nutrition Care Certificate of Technology

**Note: This program will no longer accept new students beginning Fall 2007. For questions please contact the program director at 281-476-1501 ext 1498.**

### Central Campus Only

	<b>Credit</b>
CHEF 1305—Sanitation and Safety.....	3
CHEF 1401—Basic Food Preparation.....	4
FDNS 1103—Introduction to Dietetics.....	1
FDNS 2233—Dietetic Seminar.....	2
FDNS 1360—Clinical Dietetics/Human Nutritional Services I or FDNS 2360—Clinical Dietetics/Human Nutritional Services II.....	3
	<b>13</b>

### Second Term

FDNS 1447—Medical Nutrition Therapy III.....	4
HECO 1322—Principles of Nutrition.....	3
FDNS 1345—Medical Nutrition Therapy I.....	3
FDNS 1309—Nutrition in the Community.....	3
FDNS 1346—Medical Nutrition Therapy II.....	3
	<b>16</b>

## Third Term

RSTO 1313—Hospitality Supervision or CHEF 1313—Food Service Operation/Systems.....	3
RSTO 2301—Principles of Food and Beverage Controls.....	3
RSTO 2405—Management of Food Production and Service.....	4
	<b>10</b>

**Certificate of Technology Total**

**39**

**Capstone Experience: FDNS 1447**

## Dietetic Technician

### Certificate of Specialization

**Note: This program will no longer accept new students beginning Fall 2007. For questions please contact the program director at 281-476-1501 ext 1498.**

### Nutrition Specialist

#### Central Campus Only

HECO 1322—Principles of Nutrition
FDNS 1345—Medical Nutrition Therapy I
FDNS 1309—Nutrition in the Community
FDNS 1346—Medical Nutrition Therapy II
FDNS 1447—Medical Nutrition Therapy III

## Drafting Technology

See Engineering Design Graphics

## Electrical Technology

### Electrical Technology

#### Associate of Applied Science Degree

### All Campuses

The Electrical Technology curriculum is designed to provide basic training for students to fill entry-level positions in the fields of construction, maintenance, design, marketing, residential, industrial, commercial, and other electrical related industries.

The program will also allow electrical workers to upgrade their skills as they gain on-the-job experience.

### First Term

	<b>Credit</b>
ELPT 1215—Electrical Calculations I.....	2
ELPT 1311—Basic Electrical Theory.....	3
ELPT 1325—National Electrical Code I.....	3
ELPT 1429—Residential Wiring.....	4

# Technical Programs

ITSC 1309—Integrated Software Applications or CPMT 1303—Introduction to Computer Technology or BCIS 1305—Computer Applications .....	3
PHED Activity .....	1
	<b>16</b>

## Second Term

ELPT 1345—Commercial Wiring.....	3
ELPT 1351—Electrical Machines.....	3
ELPT 2325—National Electrical Code II.....	3
ELPT 2215—Electrical Calculations II .....	2
MATH 1333—Contemporary Mathematics for Technical Programs .....	3
ENGL 1301—Composition I.....	3
	<b>17</b>

## Third Term

ELPT 1441—Motor Controls .....	4
ELPT 2343—Electrical System Design or Approved Elective .....	3
*Behavioral or Social Science .....	3
Speech.....	3
ELPT 2305—Motors and Transformers .....	3
	<b>16</b>

## Fourth Term

ELPT 2337—Electrical Planning and Estimating .....	3
RBTC 1401—Programmable Controllers or Approved Elective.....	3–4
ELPT 2364—Field Experience or Capstone Experience .....	3
PHED Activity .....	1
*Humanities or Fine Arts .....	3
ENGL 2311—Technical Report Writing.....	3
	<b>16–17</b>
<b>Associate of Applied Science Degree Total</b>	<b>65–66</b>

**Capstone Experience:** ELPT 1440, ELPT 2301, ELPT 2364,  
ELPT 2452

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

### Approved Electives

ELPT 1355	ELPT 1440	ELPT 2301	ELPT 2337
ELPT 2449	ELPT 2452		

## Electrical Technology Certificate of Technology

### All Campuses

First Term	Credit
ELPT 1215—Electrical Calculations I .....	2
ELPT 1311—Basic Electrical Theory .....	3
ELPT 1325—National Electrical Code I .....	3
ELPT 1345—Commercial Wiring.....	3

ELPT 1429—Residential Wiring .....	4
ELPT 1351—Electrical Machines.....	3
	<b>18</b>

## Second Term

ELPT 1441—Motor Controls .....	4
ELPT 2325—National Electrical Code II.....	3
ELPT 2215—Electrical Calculations II .....	2
ELPT 2343—Electrical System Design or Approved Elective.....	3
ELPT 2364—Field Experience or Capstone Experience .....	3
	<b>19</b>

**Certificate of Technology Total** **36–38**

**Capstone Experience:** ELPT 1440, ELPT 2364, ELPT 2301  
ELPT 2452

### Approved Electives

ELPT 1355	ELPT 1440	ELPT 2301	ELPT 2337
ELPT 2449	ELPT 2452		

## Electrical Technology Occupational Certificate

ELPT 1215—Electrical Calculations I .....	2
ELPT 1311—Basic Electrical Theory.....	3
ELPT 1325—National Electrical Code I .....	3
ELPT 1429—Residential Wiring .....	4
ELPT 1345—Commercial Wiring.....	3
	<b>15</b>

**Capstone Experience:** ELPT 1345

## Electrical Technology Certificate of Technology

### Continuing Education

#### Central and North Campuses

	Contact Hours
IEIR 1002—Direct Current .....	128
IEIR 1012—Distribution Systems.....	128
IEIR 1006—Electric Motors.....	128
IEIR 2043—Electrical Systems Design.....	128
<b>Certificate of Technology Total</b>	<b>512</b>
<b>Capstone Experience:</b> ELPT 2043	

## Electronics Technology

See Applied Computer Electronics Technology

## Emergency Medical Technology

*A criminal background check and/or drug screening is required of all Health Science students attending clinical courses, or practicum; and may be required prior to admission to the program.*

The Emergency Medical Technology (EMT) curriculum includes a combination of class lectures, skills training and clinical training in hospital and ambulance settings. The EMT Program at San Jacinto Community College District meets Texas Department of State Health Services (TDSHS) and the National Registry of EMTs. Students registering for the Emergency Medical Technology Program must be potentially eligible to attempt the National Registry of EMS's certification examination upon successful completion of the program. Any applicant convicted of a felony and/or misdemeanor offense may or may not be eligible for clinical participation and/or state certification.

### Central and North Campuses

Programs are accredited by the Texas Department of State Health Services EMS and Trauma Systems, the Commission on Accreditation of Allied Health Education Programs (CAAHEP), and the Committee on Accreditation of Educational Programs for the EMS Professions (CoAEMSP).

Students must meet departmental standards to take the National Registry certification examination. A fee is charged by the TDSHS and the National Registry of EMT's for certification examinations. There may also be additional charges for field experiences.

The EMT Program is designed for persons seeking positions in the emergency health care field, such as ambulance personnel, safety engineers, industrial nurses, rescue squad workers, childcare personnel, policemen, and firemen, as well as anyone who supervises or is responsible for the safety and well being of a number of people.

### Philosophy

The philosophy of the Department of Emergency Medical Technology adheres to the philosophy of the San Jacinto Community College District. Emergency medical technicians and paramedics provide pre-hospital emergency medical care, rescue, and transportation of the sick and injured.

EMS education is a lifetime process of increasing knowledge and skills appropriate to the ever growing and changing field of emergency medicine. It is the responsibility of the faculty to design and implement the educational experiences needed for a student to establish the knowledge and job entry-level skills to practice pre-hospital emergency care and crisis intervention.

The Department of Emergency Medical Technology adheres to the curricula set forth by the U.S. Department of Transportation, the Texas Department of State Health Services, the American Heart Association, the International Trauma Life Support Association and the American Academy of Pediatrics. Components of the curriculum include anatomical and physiological functions and dysfunctions, treatment modalities, rescue, management, advanced cardiovascular life support, international trauma life support, pediatric advance life support, pediatric education for pre-hospital providers, and ethical-legal responsibilities.

The associate of applied science, certificate of technology and occupational certificate programs require successful completion of the Emergency Medical Technology version of the VNSG 1320–Anatomy and Physiology for Allied Health. However, those students planning to pursue a bachelors degree and those planning to transition to other health sciences are advised to complete BIOL 2401 and BIOL 2402 (Anatomy and Physiology I and II), or to seek the advice of counselors or program advisors about the applicability and transferability of VNSG 1320, BIOL 2401 and BIOL 2402.

Computer literacy requirements for the associate of applied science degree require successful completion of ITSC 1309–Integrated Software Applications I. However, students planning ultimately to pursue a bachelor's degree are advised to take the BCIS 1305–Business Computer Applications or to seek the advice of counselors or program advisors about the applicability and transferability of ITSC 1309.

### Objectives

Upon completion of the program, the emergency medical technology student should be able to:

1. Demonstrate the knowledge base and skills necessary for pre-hospital emergency medical care and patient management.
2. Demonstrate accepted characteristics of professionalism and compassionate patient management.
3. Utilize accepted knowledge and skills principles to provide emergency medical care in the pre-hospital setting.
4. Utilize communication skills to establish and maintain effective interpersonal relationships in the realm of emergency medical care.
5. Assume responsibility for continuing education to maintain professional competency and to meet state and national certification requirements.
6. Function in the capacity of an emergency medical team leader.

7. Participate as a member of the emergency medical services community in providing pre-hospital care, EMS system development, and education.
8. Successfully pass the National Registry of EMTs registry examination for certification in the field of emergency medical services, as required for certification in the state of Texas.

### Program Information

1. Students registering for the Emergency Medical Technology Program must be potentially eligible to write the National Registry of EMTs certification exam upon successful completion of the program. An applicant convicted of a felony and/or misdemeanor offense may not be eligible for state certification.
2. Students must be 18 years of age or older to be eligible to receive certification from the Texas Department of State Health Services. Students younger than 18 years of age should contact the EMT Department prior to registration.
3. Students must have a high school diploma or GED certificate to be eligible to receive certification from the Texas Department of State Health Services.
4. Each EMSP student is required to pay the cost of the Texas Department of State Health Services and National Registry application fees and/or any associated fees directly to the Texas Department of State Health Services or National Registry of EMTs.
5. Each EMSP student who registers for an EMSP clinical or practicum course (EMSP 1160, 1260, 2161, 2162, 2168) will be required to purchase appropriate clinical attire and equipment.
6. Each student who registers for an EMSP clinical or practicum course (EMSP 1160, 1260, 2161, 2162, 2168) will be charged an insurance fee each term for malpractice liability insurance. It is strongly recommended that students have personal health insurance if enrolled in the above courses.
7. A prescribed physical examination may be required for some clinical and ambulance rotations, based on affiliation agreements. In those cases, proof of the physical examination must be on file in the EMSP Office prior to attending those rotations.
8. All students enrolled in health-related courses must show proof of one dose of vaccine administered on or after their first birthday or serological confirmation of immunity to measles/mumps/ rubella. Vaccines for tetanus/diphtheria are required every ten years after the dose obtained on or after the fourth birthday. Students must present proof of

having taken a tuberculosis skin test in the past 12 months, demonstrating to be free of TB. Students must also declare to have had chickenpox previously or must have received a Varicella vaccination. Other immunizations may also be required by some clinical sites. Proof of current immunizations must be on file in the EMSP Office prior to attending clinical or internship rotations.

9. Clinical site and time assignments are made at the discretion of the College and its affiliates and are subject to change without notice.
10. Each student is required to present proof of current CPR certification for health professionals from either the American Red Cross or the American Heart Association to complete EMSP 1160, 1260, 1305, 1338, 1355, 1356, 2161, 2162, 2168, 2243, 2330, 2348, and 2444. CPR training is included in the EMSP 1501 course.

## Emergency Medical Technology Associate of Applied Science Degree

### Central and North Campuses

First Semester	Credit
EMSP 1501—Emergency Medical Technician .....	5
EMSP 1160—Clinical—Emergency Medical Technician—Basic.....	1
ENGL 1301—Composition I .....	3
MATH 1314—College Algebra or MATH 1333—Contemporary Mathematics for Technical Programs .....	3
VNSG 1320—Anatomy and Physiology for Allied Health .....	3
	<b>15</b>

### Second Term

EMSP 1338—Introduction to Advanced Practice .....	3
EMSP 1355—Trauma Management.....	3
EMSP 1356—Patient Assessment and Airway Management .....	3
ENGL 1302—Composition II or ENGL 2311—Technical Report Writing.....	3
EMSP 1260—Clinical—Emergency Medical Technician—Intermediate .....	2
PHED Activity .....	1
	<b>15</b>

### Third Term

EMSP 2348—Emergency Pharmacology.....	3
EMSP 2444—Cardiology .....	4
EMSP 2161—Clinical—Emergency Medical Technician— Paramedic I .....	1
ITSC 1309—Integrated Software Applications I or BCIS 1305—Business Computer Applications .....	3
*Humanities or Fine Arts .....	3

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## Fourth Term

EMSP 2434—Medical Emergencies.....	4
EMSP 2330—Special Populations.....	3
EMSP 2162—Clinical—Emergency Medical Technician— Paramedic II .....	1
PHED Activity .....	1
Speech .....	3
*Behavioral or Social Science .....	3
	<b>15</b>

## Fifth Term

EMSP 2338—EMS Operations.....	3
EMSP 2243—Assessment Based Management .....	2
EMSP 2168—Practicum/Field Experience—Emergency Medical Technician—Paramedic.....	1
	<b>6</b>
<b>Associate of Applied Science Degree Total</b>	<b>65</b>

**Capstone Experience:** EMSP 2243 and EMSP 2168

**Credential Exam:** National Registry of EMTs

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

## Emergency Medical Technology Certificate of Technology

### Central and North Campuses

	<b>Credit</b>
EMSP 1501—Emergency Medical Technician .....	5
EMSP 1160—Clinical—Emergency Medical Technician—Basic.....	1
VNSG 1320—Anatomy and Physiology for Allied Health .....	3
EMSP 1338—Introduction to Advanced Practice .....	3
EMSP 1355—Trauma Management.....	3
EMSP 1356—Patient Assessment and Airway Management .....	3
EMSP 1260—Clinical—Emergency Medical Technician— Intermediate .....	2
EMSP 2348—Emergency Pharmacology.....	3
EMSP 2444—Cardiology .....	4
EMSP 2161—Clinical—Emergency Medical Technician— Paramedic I .....	1
EMSP 2434—Medical Emergencies.....	4
EMSP 2330—Special Populations.....	3
EMSP 2162—Clinical—Emergency Medical Technician— Paramedic II .....	1
EMSP 2338—EMS Operations .....	3
EMSP 2243—Assessment Based Management .....	2
EMSP 2168—Practicum/Field Experience Emergency Medical Technician—Paramedic .....	1
<b>Certificate of Technology Total</b>	<b>42</b>

**Capstone Experience:** EMSP 2243 and EMSP 2168

**Credential Exam:** National Registry of EMTs

## Emergency Medical Technology Occupational Certificate

### Central and North Campuses

	<b>Credit</b>
EMSP 1501—Emergency Medical Technician .....	5
EMSP 1160—Clinical—Emergency Medical Technician—Basic.....	1
VNSG 1320—Anatomy and Physiology for Allied Health .....	3
EMSP 1338—Introduction to Advanced Practice .....	3
EMSP 1355—Trauma Management.....	3
EMSP 1356—Patient Assessment and Airway Management .....	3
EMSP 1260—Clinical—Emergency Medical Technician— Intermediate .....	2
<b>Occupational Certificate Total</b>	<b>20</b>

**Capstone Experience:** EMSP 1260

## Emergency Medical Technology EMT Basic and Intermediate Certificate

### North Campus

	<b>Credit</b>
EMSP 1501—Emergency Medical Technician .....	5
EMSP 1160—Clinical—Emergency Medical Technician—Basic.....	1
EMSP 1338—Introduction to Advanced Practice .....	3
EMSP 1355—Trauma Management.....	3
EMSP 1356—Patient Assessment and Airway Management .....	3
EMSP 1260—Clinical—Emergency Medical Technician— Intermediate .....	2
<b>Basic and Intermediate Certificate Total</b>	<b>17</b>

**Capstone Experience:** EMSP 1260

## Engineering Design Graphics

### Engineering Design Graphics Associate of Applied Science Degree

#### All Campuses

Engineering Design Graphics is a highly technical field where engineering data is communicated through the use of computer sciences, mathematics, technical language, and modern sociological environments. Contemporary engineering designers are employed in diverse and specialized disciplines of engineering graphics such as 3D technical animation, 3D solid modeling, architecture, electronics, topographic, mechanical, structural and piping.

The Engineering Design Graphics Department provides academic and occupational skills training for design drafters, engineering students and technicians, and design animator/modelers using proven traditional instructional methods as well as emerging technologies such as 3D technical animation and 3D solid modeling.

In a world that is ever expanding, every commercially developed product began as a detailed drawing. These detailed drawings originated from developmental sketches, design specifications and data supplied by product engineers or other technically skilled experts. Within the Houston metropolitan area, design drafters routinely specialize in disciplines such as piping, mechanical, architectural, electrical, structural and topographic. Rapidly growing fields of study include 3D technical animation and 3D solid modeling. Design drafters prepare construction documents that illustrate design features, detailed dimensions, and specifications used in the manufacture, fabrication, and installation of every product we use.

The Engineering Design Graphics core curriculum features mechanical drawing, manual and computer-aided drafting courses, and mathematics. The balance of the curriculum includes courses in oral and written communication skills, behavioral or social sciences, physical education, and the humanities.

Based on high corporate demand for design drafters with discipline-specific skills, a student may choose to concentrate their efforts in a specialized field of study. A Specialty A.A.S. and/or Certificate of Technology is available in one of four areas, Architectural/Civil/Structural, Mechanical, Petro/Industrial, and Technical Animation and Modeling. Each curriculum is designed to provide training to employed design drafters wishing to upgrade their skills. Those seeking to upgrade their skills in a particular field of study may wish to obtain a Certificate of Specialization. This departmental certification requires only four to five classes concentrating in disciplines such as 3D Solid Modeling and Design, 3D Technical Animation and Rendering, Architectural, Civil, Electrical, Instrumentation, Mechanical, Piping or Structural 3D technical animation and 3D solid modeling are revolutionizing the design and presentation phases of product development. The Engineering Design Graphics Department is at the forefront in training for these new areas as well.

First Term	Credit
DFTG 1405–Technical Drafting .....	4
DFTG 1409–Basic Computer-Aided Drafting.....	4
*Behavioral or Social Science .....	3
PHED Activity .....	1
*Oral Communication.....	3
	<u>15</u>

Second Term	
DFTG 2417–Descriptive Geometry .....	4
Engineering Design Graphics Elective .....	4
Engineering Design Graphics Elective .....	4
Engineering Design Graphics Elective .....	4
PHED Activity .....	1
	<u>17</u>

Third Term	
Engineering Design Graphics Elective .....	4
Engineering Design Graphics Elective .....	4
Engineering Design Graphics Elective .....	4
ENGL 1301–Composition I .....	3
MATH 1333–Contemporary Mathematics for Technical Programs....	3
	<u>18</u>

Fourth Term	
Engineering Design Graphics Elective .....	4
+DFTG 2386–Internship-Drafting and Design Technology/Technician, General or DFTG 2438–Final Project–Advanced Drafting.....	3-4
ENGL 2311–Technical Report Writing.....	3
*Humanities or Visual/Performing Arts.....	3
ARCE 2444–Statics and Strength of Materials.....	4
	<u>17-18</u>
<b>Associate of Applied Science Degree Total</b>	<b>67-68</b>

**+Capstone Experience: DFTG 2386 or DFTG 2438**

+ *The course selected to satisfy the Capstone Experience (DFTG 2386 or DFTG 2438) can only be taken during, or after, the term in which the last required and elective Engineering Design Graphics courses are completed.*

Degrees in multiple Engineering Design Graphics A.A.S. Specialties will not be awarded.

\* Courses which satisfy these requirements are listed in the Oral Communication, Humanities and Visual/Performing Arts, and Behavioral and Social Sciences sections of the Associate of Arts Transfer Core Curriculum which is published in the San Jacinto Community College District Catalog.

Engineering Design Graphics Electives: (Choose seven)

ARCE 1421	ARCE 1452	ARTV 1402	ARTV 1440
DFTG 1410	DFTG 1417	DFTG 1445	DFTG 2402
DFTG 2406	DFTG 2408	DFTG 2419	DFTG 2421
DFTG 2423	DFTG 2428	DFTG 2432	DFTG 2436
DFTG 2440	DFTG 2445	DFTG 2447	DFTG 2458
DFTG 2476			

## Engineering Design Graphics Certificate of Technology

### All Campuses

First Term	Credit
DFTG 1405–Technical Drafting .....	4
DFTG 1409–Basic Computer-Aided Drafting.....	4
Engineering Design Graphics Elective .....	4
Engineering Design Graphics Elective .....	4
	<u>16</u>

### Second Term

DFTG 2417–Descriptive Geometry .....	4
Engineering Design Graphics Elective .....	4
Engineering Design Graphics Elective .....	4

**15-16**

### Certificate of Technology Total

**31-32**

#### +Capstone Experience: DFTG 2386 or DFTG 2438

+ The course selected to satisfy the Capstone Experience (DFTG 2386 or DFTG 2438) can only be taken during, or after, the term in which the last required and elective Engineering Design Graphics courses are completed.

Certificates in multiple Engineering Design Graphics Specialties will not be awarded.

Engineering Design Graphics electives: (Choose four)

ARCE 1421	ARCE 1452	ARTV 1402	ARTV 1440
DFTG 1410	DFTG 1417	DFTG 1445	DFTG 2402
DFTG 2406	DFTG 2408	DFTG 2419	DFTG 2421
DFTG 2423	DFTG 2428	DFTG 2432	DFTG 2436
DFTG 2440	DFTG 2445	DFTG 2447	DFTG 2458
DFTG 2476			

## Engineering Design Graphics Architectural/Civil/Structural Speciality Associate of Applied Science Degree

### All Campuses

First Term	Credit
DFTG 1405–Technical Drafting .....	4
DFTG 1409–Basic Computer-Aided Drafting.....	4
ENGL 1301–Composition I .....	3
*Oral Communication.....	3
PHED Activity .....	1

**15**

### Second Term

DFTG 2417–Descriptive Geometry .....	4
Architectural/Civil/Structural Specialty Elective .....	4
Architectural/Civil/Structural Specialty Elective .....	4
Architectural/Civil/Structural Specialty Elective .....	4

**16**

### Third Term

Architectural/Civil/Structural Specialty Elective .....	4
Architectural/Civil/Structural Specialty Elective .....	4
Engineering Design Graphics Elective .....	4
MATH 1333–Contemporary Mathematics for Technical	

Programs ..... 3

\*Behavioral or Social Science ..... 3

**18**

### Fourth Term

Engineering Design Graphics Elective .....	4
Engineering Design Graphics Elective .....	4
+DFTG 2386–Internship–Drafting and Design Technology/Technician,	
General or	
DFTG 2438–Final Project–Advanced Drafting .....	3-4
ENGL 2311–Technical Report Writing.....	3
*Humanities of Visual/Performing Arts.....	3

**17-18**

**67-68**

### Associate of Applied Science Degree Total

#### +Capstone Experience: DFTG 2386 or DFTG 2438

+ The course selected to satisfy the Capstone Experience (DFTG 2386 or DFTG 2438) can only be taken during, or after, the term in which the last required and elective Engineering Design Graphics courses are completed.

Degrees in multiple Engineering Design Graphics A.A.S. Specialties will not be awarded.

Architectural/Civil/Structural Specialty Electives:

ARCE 1421	ARCE 1452	DFTG 1417	DFTG 2421
DFTG 2428			

Engineering Design Graphics Electives: (Choose three)

ARCE 1421	ARCE 1452	ARTV 1402	ARTV 1440
DFTG 1410	DFTG 1417	DFTG 1445	DFTG 2402
DFTG 2406	DFTG 2408	DFTG 2419	DFTG 2421
DFTG 2423	DFTG 2428	DFTG 2432	DFTG 2436
DFTG 2440	DFTG 2445	DFTG 2447	DFTG 2458
DFTG 2476			

# Technical Programs

## Engineering Design Graphics Architectural/Civil/Structural Specialty Certificate of Technology

### All Campuses

	<b>Credit</b>
First Term	
DFTG 1405–Technical Drafting .....	4
DFTG 1409–Basic Computer-Aided Drafting.....	4
Architectural/Civil/Structure Specialty Elective .....	4
Architectural/Civil/Structure Specialty Elective .....	4
	<u>16</u>

### Second Term

DFTG 2417–Descriptive Geometry .....	4
Architectural/Civil/Structure Specialty Elective .....	4
Architectural/Civil/Structure Specialty Elective .....	4
+DFTG 2386–Internship–Drafting and Design Technology/Technician, General or	
DFTG 2438–Final Project–Advanced Drafting .....	3-4
	<u>15-16</u>

**Certificate of Technology Total** **31-32**

**+Capstone Experience: DFTG 2386 or DFTG 2438**

+The course selected to satisfy the Capstone Experience (DFTG 2386 or DFTG 2438) can only be taken during, or after, the term in which the last required and elective Engineering Design Graphics courses are completed.

Certificates in multiple Engineering Design Graphics Specialties will not be awarded.

Architectural/Civil/Structural Specialty Electives:

ARCE 1421                      ARCE 1452                      DFTG 1417  
DFTG 2421 or DFTG 2428

## Engineering Design Graphics Mechanical Specialty Associate of Applied Science Degree

	<b>Credit</b>
First Term	
DFTG 1405–Technical Drafting .....	4
DFTG 1409–Basic Computer-Aided Drafting.....	4
ENGL 1301–Composition I .....	3
*Oral Communication.....	3
PHED Activity .....	1
	<u>15</u>

### Second Term

DFTG 2417–Descriptive Geometry .....	4
Mechanical Specialty Elective .....	4

Mechanical Specialty Elective .....	4
Mechanical Specialty Elective .....	4
PHED Activity .....	1
	<u>17</u>

### Third Term

Mechanical Specialty Elective .....	4
Mechanical Specialty Elective .....	4
Engineering Design Graphics Elective .....	4
MATH 1333–Contemporary Mathematics for Technical Program .....	3
*Behavioral or Social Science .....	3
	<u>18</u>

### Fourth Term

Engineering Design Graphics Elective .....	4
Engineering Design Graphics Elective .....	4
+DFTG 2386–Internship–Drafting and Design Technology/Technician, General or	
DFTG 2438–Final Project–Advanced Drafting.....	3-4
ENGL 2311–Technical Report Writing.....	3
*Humanities or Visual/Performing Arts.....	3
	<u>17-18</u>

**Associate of Applied Science Degree Total** **67-68**

+Capstone Experience: DFTG 2386 or DFTG 2438

+The course selected to satisfy the Capstone Experience (DFTG 2386 or DFTG 2438) can only be taken during, or after, the term in which the last required and elective Engineering Design Graphics courses are completed.

Degrees in multiple Engineering Design Graphics A.A.S. Specialties will not be awarded.

\* Courses which satisfy these requirements are listed in the Oral Communication, Humanities and Visual/Performing Arts, and Behavioral and Social Sciences sections of the Associate of Arts Transfer Core Curriculum which is published in the San Jacinto Community College District Catalog.

Mechanical Specialty Electives:

DFTG 1445      DFTG 2402      DFTG 2406      DFTG 2440  
DFTG 2458

Engineering Design Graphics Electives: (Choose three)

ARCE 1421      ARCE 1452      ARTV 1402      ARTV 1440  
DFTG 1410      DFTG 1417      DFTG 1445      DFTG 2402  
DFTG 2406      DFTG 2408      DFTG 2419      DFTG 2421  
DFTG 2423      DFTG 2428      DFTG 2432      DFTG 2436  
DFTG 2440      DFTG 2445      DFTG 2447      DFTG 2458  
DFTG 2476

## Engineering Design Graphics Mechanical Specialty Certificate of Technology

First Term	Credit
DFTG 1405–Technical Drafting .....	4
DFTG 1409–Basic Computer–Aided Drafting.....	4
Mechanical Specialty Elective .....	4
Mechanical Specialty Elective .....	4
	<b>16</b>

### Second Term

DFTG 2417–Descriptive Geometry .....	4
Mechanical Specialty Elective .....	4
Mechanical Specialty Elective .....	4
+DFTG 2386–Internship–Drafting and Design Technology/Technician, General or DFTG 2438–Final Project–Advanced Drafting.....	3-4
	<b>15-16</b>

### Certificate of Technology Total

**31-32**

+Capstone Experience: DFTG 2386 or DFTG 2438

+The course selected to satisfy the Capstone Experience (DFTG 2386 or DFTG 2438) can only be taken during, or after, the term in which the last required and elective Engineering Design Graphics courses are completed.

Certificates in multiple Engineering Design Graphics Specialties will not be awarded.

Mechanical Specialty Electives:

DFTG 2402                      DFTG 2406                      DFTG 2440  
DFTG 1445 or DFTG 2458

## Engineering Design Graphics Petro/Industrial Specialty Associate of Applied Science Degree

First Term	Credit
DFTG 1405–Technical Drafting .....	4
DFTG 1409–Basic Computer–Aided Drafting.....	4
ENGL 1301–Composition I .....	3
*Oral Communication.....	3
PHED Activity .....	1
	<b>15</b>

### Second Term

DFTG 2417–Descriptive Geometry .....	4
Petro/Industrial Specialty Elective .....	4
Petro/Industrial Specialty Elective .....	4
Petro/Industrial Specialty Elective .....	4
PHED Activity .....	1
	<b>17</b>

### Third Term

Petro/Industrial Specialty Elective .....	4
Petro/Industrial Specialty Elective .....	4
Engineering Design Graphics Elective .....	4
MATH 1333–Contemporary Mathematics for Technical Programs .....	3
*Behavioral or Social Science .....	3
	<b>18</b>

### Fourth Term

Engineering Design Graphics Elective .....	4
Engineering Design Graphics Elective .....	4
+DFTG 2386–Internship–Drafting and Design Technology/Technician, General or DFTG 2438–Final Project–Advanced Drafting.....	3-4
ENGL 2311–Technical Report Writing.....	3
*Humanities or Visual/Performing Arts.....	3
	<b>17-18</b>

### Associate of Applied Science Degree Total

**67-68**

#### +Capstone Experience: DFTG 2386 or DFTG 2438

+The course selected to satisfy the Capstone Experience (DFTG 2386 or DFTG 2438) can only be taken during, or after, the term in which the last required and elective Engineering Design Graphics courses are completed.

Degrees in multiple Engineering Design Graphics A.A.S. Specialties will not be awarded.

\* Courses which satisfy these requirements are listed in the Oral Communication, Humanities and Visual/Performing Arts, and Behavioral and Social Sciences sections of the Associate of Arts Transfer Core Curriculum which is published in the San Jacinto Community College District Catalog.

#### Petro/Industrial Specialty Electives

ARCE 1452                      DFTG 2408                      DFTG 2421                      DFTG 2423  
DFTG 2445                      DFTG 2476

#### Engineering Design Graphics Electives: (Choose three)

ARCE 1421                      ARCE 1452                      ARTV 1402                      ARTV 1440  
DFTG 1410                      DFTG 1417                      DFTG 1445                      DFTG 2402  
DFTG 2406                      DFTG 2408                      DFTG 2419                      DFTG 2421  
DFTG 2423                      DFTG 2428                      DFTG 2432                      DFTG 2436  
DFTG 2440                      DFTG 2445                      DFTG 2447                      DFTG 2458  
DFTG 2476

## Engineering Design Graphics Petro/Industrial Specialty Certificate of Technology

First Term	Credit
DFTG 1405–Technical Drafting .....	4
DFTG 1409–Basic Computer-Aided Drafting.....	4
Petro/Industrial Specialty Elective .....	4
Petro/Industrial Specialty Elective .....	4
	<u>16</u>

Second Term	Credit
DFTG 2417–Descriptive Geometry .....	4
Petro/Industrial Specialty Elective .....	4
Petro/Industrial Specialty Elective .....	4
+DFTG 2386–Internship–Drafting and Design Technology/Technician, General or	
DFTG 2438–Final Project–Advanced Drafting.....	3-4
	<u>15-16</u>

**Certificate of Technology Total** **31-21**

**+Capstone Experience: DFTG 2386 or DFTG 2438**

+The course selected to satisfy the Capstone Experience (DFTG 2386 or DFTG 2438) can only be taken during, or after, the term in which the last required and elective Engineering Design Graphics courses are completed.

Certificates in multiple Engineering Design Graphics Specialties will not be awarded.

Petro/Industrial Specialty Electives:

DFTG 2423                  DFTG 2445                  DFTG 2476  
DFTG 2421 or ARCE 1452 or DFTG 2408

## Engineering Design Graphics Technical Animator/Modeler Specialty Associate of Applied Science

**All Campuses**

First Term	Credit
DFTG 1405–Technical Drafting .....	4
DFTG 1409–Basic Computer-Aided Drafting.....	4
ENGL 1301–Composition I .....	3
*Oral Communication.....	3
PHED Activity .....	1
	<u>15</u>

**Second Term**

DFTG 2417–Descriptive Geometry .....	4
Technical Animator/Modeler Specialty Elective.....	4
Technical Animator/Modeler Specialty Elective.....	4

ENGL 2311–Technical Report Writing.....	3
PHED Activity .....	1
	<u>16</u>

**Third Term**

Technical Animator/Modeler Specialty Elective.....	4
Technical Animator/Modeler Specialty Elective.....	4
Approved Specialty Elective .....	4
MATH 1333–Contemporary Mathematics for Technical Programs....	3
*Humanities or Visual/Performing Arts.....	3
	<u>18</u>

**Fourth Term**

Engineering Design Graphics Elective .....	4
Engineering Design Graphics Elective .....	4
+DFTG 2386–Internship–Drafting and Design Technology/Technician, General or	
DFTG 2438–Final Project–Advanced Drafting.....	3-4
*Behavioral or Social Science .....	3
	<u>14-15</u>

**Associate of Applied Science Total** **63-64**

**+Capstone Experience: DFTG 2386 or DFTG 2438**

+The course selected to satisfy the Capstone Experience (DFTG 2386 or DFTG 2438) can only be taken during, or after, the term in which the last required and elective Engineering Design Graphics courses are completed.

\* Courses which satisfy these requirements are listed in the Oral Communication, Humanities and Visual/Performing Arts, and Behavioral and Social Sciences sections of the Associate of Arts Transfer Core Curriculum which is published in the San Jacinto Community College District Catalog.

Degrees in multiple Engineering Design Graphics A.A.S. Specialties will not be awarded.

Technical Animator/Modeler Specialty Electives: (Choose four)

ARCE 1421          ARTV 1402          ARTV 1440          DFTG 1445  
DFTG 2440          DFTG 2447

Approved Specialty Electives: (Choose one)

ARCE 1421          ARTV 1402          ARTV 1440          DFTG 1445  
DFTG 2406          DFTG 2440          DFTG 2445          DFTG 2447  
DFTG 2458

Engineering Design Graphics Electives: (Choose two)

ARCE 1421          ARCE 1452          ARTV 1402          ARTV 1440  
DFTG 1410          DFTG 1417          DFTG 1445          DFTG 2402  
DFTG 2406          DFTG 2408          DFTG 2419          DFTG 2421  
DFTG 2423          DFTG 2428          DFTG 2432          DFTG 2436  
DFTG 2440          DFTG 2445          DFTG 2447          DFTG 2458  
DFTG 2476

## Engineering Design Graphics Technical Animator/Modeler Specialty Certificate of Technology

### All Campuses

First Term	Credit
DFTG 1405–Technical Drafting .....	4
DFTG 1409–Basic Computer-Aided Drafting.....	4
Technical Animator/Modeler Specialty Elective.....	4
	<b>12</b>

### Second Term

DFTG 2417–Descriptive Geometry .....	4
Technical Animator/Modeler Specialty Elective.....	4
Technical Animator/Modeler Specialty Elective.....	4
	<b>12</b>

### Third Term

Technical Animator/Modeler Specialty Elective.....	4
Approved Specialty Elective .....	4
DFTG 2386–Internship–Drafting and Design Technology/Technician, General or	
DFTG 2438–Final Project–Advanced Drafting .....	3-4
	<b>11-12</b>

**Certificate of Technology Total: 35-36**

#### +Capstone Experience: DFTG 2386 or DFTG 2438

+The course selected to satisfy the Capstone Experience (DFTG 2386 or DFTG 2438) can only be taken during, or after, the term in which the last required and elective Engineering Design Graphics courses are completed.

Certificates in multiple Engineering Design Graphics Specialties will not be awarded.

Technical Animator/Modeler Specialty Electives: (Choose four)

ARCE 1421	ARTV 1402	ARTV 1440	DFTG 1445
DFTG 2440	DFTG 2447		

Approved Specialty Electives: (Choose one)

ARCE 1421	ARTV 1402	ARTV 1440	DFTG 1445
DFTG 2406	DFTG 2440	DFTG 2445	DFTG 2447
DFTG 2458			

## Fire Protection Technology

### Central Campus Only

The Fire Protection Technology Department of San Jacinto Community College District offers three different educational programs for aspiring firefighters and current firefighters.

1. For aspiring firefighters, the College offers the Firefighter Training Academy. The academy meets and exceeds all state requirements for paid/career firefighters. Students seeking an entry-level firefighter position should begin here. See below for further information regarding the Firefighter Training Academy.
2. For academy graduates and current firefighters, the College offers an associate of applied science degree in firefighting. This program provides additional fire related education and certification opportunities as well as courses in general education.
3. For academy graduates and current firefighters who wish to become paramedics, the College offers a Paramedic Option for the Firefighting Associate of Applied Science Degree.

Students in the Fire Protection Technology Program must be potentially eligible to participate in certification examinations for firefighters upon successful completion of the prescribed course work. An applicant who has been convicted of a felony, implicated in substance abuse, or involved in activities considered inappropriate by the Texas Commission on Fire Protection may be ineligible to participate in the certification examination. Such an applicant should contact the Texas Commission on Fire Protection in Austin, Texas, for guidance in petitioning the Commission for a decision of eligibility. A copy of the Commission's statement of eligibility should be submitted to San Jacinto Community College District's Fire Protection Technology chief training officer.

### Firefighter Training Academy

#### Central Campus Only

The following courses meet and exceed the Texas Commission on Fire Protection's curriculum requirements for Basic Fire Suppression Certification and the Texas Department of State Health Services's curricula requirements for Emergency Medical Technician–Basic certification.

FIRS 1301–Firefighter Certification I.....	3
FIRS 1407–Firefighter Certification II.....	4
FIRS 1313–Firefighter Certification III.....	3
FIRS 1319–Firefighter Certification IV.....	3
FIRS 1423–Firefighter Certification V.....	4
FIRS 1329–Firefighter Certification VI.....	3
FIRS 1433–Firefighter Certification VII.....	4
EMSP 1501–Emergency Medical Technician .....	5
EMSP 1160–Clinical EMT–Basic .....	1
PHED Activity .....	1
PHED Activity .....	1

**Firefighter Training Academy Total 32**

## Academy Information

1. New academy classes begin each summer and fall semester. Please contact the Fire Protection Technology Office for specific schedules and registration information. It is suggested that students contact the Fire Protection Technology Office a term in advance of anticipated enrollment, as classes fill quickly.
2. Firefighter Training Academy cadets must undergo a medical examination and physical performance test as defined in NFPA 1582 and submit approval documentation to the department's chief training officer. Students not completing or failing the medical examination or the physical performance test are not eligible to continue in the academy and will be withdrawn. Students failing the medical examination or the physical performance test will be eligible for a 100% refund in accordance with the current refund policy if officially withdrawn in the Registrar's Office on or before the 12th class day.
3. Firefighter Training Academy students must earn a grade of C or better in each of the academy courses in order to graduate from the academy. Failure to earn a grade of C or better in any course in the academy will result in the student being administratively withdrawn from all Firefighter Training Academy courses.
4. Each Firefighter Training Academy cadet must satisfactorily demonstrate each of the required performance skills in the curriculum manual of the Texas Fire Commission on Fire Protection in order to graduate from the Basic Fire Academy.
5. Student-initiated withdrawals from the required physical education courses, or instructor-initiated withdrawals due to excessive absences shall result in administrative withdrawal from the Firefighter Training Academy.
6. In order to complete the Firefighter Training Academy, the student must earn a grade of C or above in each of the required physical education co-requisites. Failure to earn a grade of C or above in each of the required physical education co-requisites shall result in administrative withdrawal from the Firefighter Training Academy.
7. Administrative withdrawal from any San Jacinto Community College District course due to disciplinary action shall result in administrative withdrawal from the Firefighter Training Academy.

## Certification Information

San Jacinto Community College District fire protection courses fulfill the educational requirements for numerous fire service certifications. Please contact the Fire Protection Technology Department on the Central Campus for specific information.

## Firefighting

### Associate of Applied Science Degree

#### Central Campus Only

Persons who are currently certified by the Texas Commission on Fire Protection may enter the program with special permission from the department chair. Under this provision, Firefighter–Basic Certification is accepted in lieu of completion of the following Fire Protection courses:

FIRS 1301	FIRS 1313	FIRS 1319	FIRS 1329
FIRS 1407	FIRS 1423	FIRS 1433	

Persons who are currently certified as Emergency Medical Technician–Basic by the Texas Department of State Health Services may enter the program with special permission from the department chair. Under this provision, Texas Department of State Health Services certification is accepted in lieu of completion of the Emergency Medical Technician–Basic courses specified in the program (EMSP 1501 and EMSP 1160).

Prospective students must satisfy the general admission requirements of the College and provide satisfactory evidence of basic firefighter certification to the Fire Protection Technology department chair and the registrar.

#### Central Campus Only

First Term	Credit
FIRS 1301–Firefighter Certification I.....	3
FIRS 1407–Firefighter Certification II.....	4
FIRS 1313–Firefighter Certification III.....	3
FIRS 1423–Firefighter Certification V.....	4
PHED Activity .....	1
	<b>15</b>

#### Second Term

FIRS 1319–Firefighter Certification IV.....	3
FIRS 1329–Firefighter Certification VI.....	3
FIRS 1433–Firefighter Certification VII.....	4
PHED Activity .....	1
EMSP 1501–Emergency Medical Technician–Basic.....	5
EMSP 1160–Clinical–Emergency Medical Technology/Technician (EMT Paramedic)–Basic.....	1
	<b>17</b>

#### Third Term

ENGL 1301–Composition I .....	3
MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	3
*Humanities or Fine Arts .....	3
*Behavioral or Social Science .....	3
FIRT 1327–Building Construction for the Fire Service.....	3
Approved Elective .....	3
	<b>18</b>

## Fourth Term

ENGL 2311–Technical Report Writing.....	3
SPCH 1321–Business and Professional Speech .....	3
FIRT 1355–Methods of Teaching .....	3
ITSC 1309–Introduction to Software Applications I or BCIS 1305–Business Computer Applications .....	3
Approved Elective .....	3
	<b>15</b>

## Post-Year 2

FIRT 1319–Firefighter Health and Safety.....	3
Approved Elective .....	3
	<b>6</b>

**Associate of Applied Science Degree Total** **71**

**Capstone Experience:** Texas Commission on Fire Protection–  
Basic Fire Suppression and Texas  
Department of State Health Services  
Emergency Medical Technology–Basic

\*Courses that satisfy this requirement are listed in the  
Humanities and Visual/Performing  
Arts section of the Transfer Core  
Curriculum.

### Approved Electives

FIRT 1303	FIRT 1309	FIRT 1349	FIRT 1370
FIRT 1408	FIRT 1440	FIRT 2333	FIRT 2351

## Firefighting

### Certificate of Technology

#### Central Campus Only

	<b>Credit</b>
FIRS 1301–Firefighter Certification I.....	3
FIRS 1407–Firefighter Certification II.....	4
FIRS 1313–Firefighter Certification III.....	3
FIRS 1319–Firefighter Certification IV.....	3
FIRS 1423–Firefighter Certification V.....	4
FIRS 1329–Firefighter Certification VI.....	3
FIRS 1433–Firefighter Certification VII.....	4
EMSP 1501–Emergency Medical Technician .....	5
EMSP 1160–Clinical–EMT–Basic .....	1
PHED 1119–Exercise for Health and Fitness.....	1
PHED 1119–Exercise for Health and Fitness.....	1

**Certificate of Technology Total** **32**

**Capstone Experience:** Texas Commission on Fire Protection–  
Basic Fire Suppression and Texas  
Department of State Health Services  
Emergency Medical Technology–  
Basic.

## Firefighting Paramedic Option

### Associate of Applied Science Degree

#### Central Campus Only

	<b>Credit</b>
<b>First Term</b>	
FIRT 1327–Building Construction in the Fire Service .....	3
FIRT 1355–Methods of Teaching .....	3
ENGL 1301–Composition I .....	3
FIRT Approved Elective.....	3
FIRT Approved Elective.....	3
PHED 1119–Exercise for Health and Fitness.....	1
	<b>16</b>

#### Second Term

FIRT Approved Elective.....	3
FIRT Approved Elective.....	3
PHED 1119–Exercise for Health and Fitness.....	1
ENGL 2311–Technical Report Writing.....	3
*VNSG 1320–Anatomy and Physiology for Allied Health.....	3
	<b>13</b>

#### Third Term

MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	3
**Humanities or Fine Arts .....	3
**Behavioral or Social Sciences .....	3
EMSP 2348–Emergency Pharmacology.....	3
EMSP 2444–Cardiology .....	4
EMSP 2161–Clinical–Emergency Medical Technology–Paramedic I.....	1
	<b>17</b>

#### Fourth Term

ITSC 1309–Introduction to Software Applications I or BCIS 1305–Business Computer Applications .....	3
SPCH 1321–Business and Professional Speech .....	3
EMSP 2434–Medical Emergencies.....	4
EMSP 2330–Special Populations.....	3
EMSP 2162–Clinical–Emergency Medical Technology–Paramedic II.....	1
	<b>14</b>

#### Post-Year 2

<b>Summer Session</b>	
EMSP 2338–EMS Operations.....	3
EMSP 2243–Assessment Based Management .....	2
EMSP 2168–Practicum/Field Experience–Emergency Medical Technology–Paramedic.....	1
	<b>6</b>

**Associate of Applied Science Degree Total** **69**

**Capstone Experience:** Texas Commission on Fire Protection–  
Basic Fire Suppression and Texas  
Department of State Health Services  
Emergency Medical Technology–Basic

# Technical Programs

**\*Important information concerning this class will be found in the Emergency Medical Technology section of the Catalog.**

*\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

## Approved Electives

FIRT 1303	FIRT 1309	FIRT 1349	FIRT 1370
FIRT 1408	FIRT 1440	FIRT 2333	FIRT 2351

## Geographic Information Science (GIS)

### Geographic Information Science (GIS) Associate of Applied Science Degree

#### Central Campus Only

The Geographic Information Science program is designed for entry into the emergent technology of GIS. Using several industry-specific software programs, students will learn the acquisition, processing and merging of data, and the application of GIS for modeling and analysis. Classroom learning, fieldwork, and work experience will prepare the student with not only the technical skill but also the ability to analyze geographic data that will be in demand in the diverse employment market.

First Term	Credit
ENGL 1301—Composition I .....	3
MATH 1314—College Algebra.....	3
PHED Activity .....	1
ITSE 1329—Programming Logic and Design .....	3
ITSC 1309—Integrated Software Applications I or BCIS 1305—Business Computer Applications .....	3
GEOG 1301—Physical Geography or GEOL 1303—Physical Geology or GEOL 1405—Environmental Geology.....	3
	<b>16</b>

#### Second Term

GEOG 1302—Cultural Geography .....	3
PSYC 2317—Elementary Statistics.....	3
CRTG 1311—Introduction to Geographic Information Systems .....	3
ITSW 2337—Advanced Database .....	3
PHED Activity .....	1
ENGL 2311—Technical Report Writing or ENGL 1302—Composition II .....	3
	<b>16</b>

#### Third Term

CRTG 1301—Cartography and Geography in Geographic Information Systems and Global Positioning Systems.....	3
CRTG 1321—Introduction to Raster-Based GIS .....	3
ITSE 1331—Introduction to Visual BASIC Programming .....	3
*Social or Behavioral Science .....	3
*Humanities or Fine Arts .....	3
	<b>15</b>

#### Fourth Term

CRTG 2311—Geographic Information Systems Applications.....	3
CRTG 2301—Data Acquisition and Analysis in Geographic Information Systems .....	3
Free Elective .....	3
CRTG 2380—Cooperative Education—Cartography.....	3
SPCH 1321—Business and Professional Speech or SPCH 1315—Public Speaking .....	3
	<b>15</b>
<b>Associate of Applied Science Degree Total</b>	<b>62</b>

**Capstone Experience: CRTG 2380**

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

### Geographic Information Science (GIS) Certificate of Technology

#### Central Campus Only

First Term	Credit
CRTG 1311—Introduction to GIS and GPS.....	3
ITSW 2337—Advanced Database .....	3
GEOG 1301—Physical Geography or GEOG 1302—Cultural Geography.....	3
ITSE 1329—Programming Logic and Design or BCIS 1305—Business Computer Applications .....	3
	<b>12</b>

#### Second Term

CRTG 2311—Workplace GIS.....	3
ITSE 1329—Programming Logic and Design .....	3
CRTG 1301—Cartography and Geography in Geographic Information Systems and Global Positioning Systems .....	3
CRTG 1321—Introduction to Raster-Based GIS .....	3
	<b>12</b>

#### Third Term

CRTG 2301—Data Acquisition and Analysis in GIS .....	3
CRTG 2380—Cooperative Education—Cartography.....	3
	<b>6</b>
<b>Certificate of Technology Total</b>	<b>30</b>

**Capstone Experience: CRTG 2380**

## Geographic Information Science (GIS) Occupational Certificate

First Term	Credit
CRTG 1301—Cartography and Geography in Geographical Information Systems and Global Positioning Systems .....	3
CRTG 1311—Introduction to Geographic Information Systems and Global Positioning Systems .....	3
GEOG 1301—Physical Geography or GEOG 1302—Cultural Geography .....	3
	<b>9</b>
Second Term	
CRTG 1321—Introduction to Raster-Based Geographic Information Systems.....	3
CRTG 2301—Data Acquisition and Analysis in Geographic Information Systems.....	3
CRTG 2311—Workplace Geographic Information Systems.....	3
	<b>9</b>
<b>Occupational Certificate Total</b>	<b>18</b>
<b>Capstone Experience: CRTG 2311</b>	

## Geomatic Surveying Technology (Land Surveying)

### Geomatic Surveying Technology Associate of Applied Science Degree

#### South Campus Only

Texas Senate Bill No. 545 (Professional Land Surveying Act) requires that, starting January 2003, all individuals who apply for certification as a surveyor-in-training to become a professional land surveyor must have earned an associate degree in surveying conferred by an accredited institution of higher education or must have earned an associate degree and acquired 32 semester credit hours in land surveying and/or related courses approved by the Texas Board of Professional Land Surveying. To qualify as a registered professional land surveyor and take the land surveyor examination requires a bachelor's degree (in any field) and two years training as a surveyor-in-training.

The curricula leading to an associate of applied science degree or certificate of technology are designed in coordination with professionals in the field to provide basic preparation for entry into the land surveying profession.

First Term	Credit
DFTG 1405—Technical Drafting .....	4
SRVY 1301—Introduction to Surveying.....	3
SRVY 1313—Plane Surveying.....	3
Humanities or Fine Arts.....	3
SPCH 1315—Public Speaking or SPCH 1318—Business and Professional Speech .....	3
PHED Activity .....	1
	<b>17</b>

Second Term	
DFTG 1409—Basic Computer-Aided Drafting.....	4
SRVY 2343—Surveying—Legal Principles I.....	3
SRVY 1441—Land Surveying.....	4
MATH 1314—College Algebra.....	3
PHED Activity .....	1
	<b>15</b>

Third Term	
SRVY 2344—Surveying—Legal Principles II.....	3
SRVY 2313—Control Surveying .....	3
ENGL 1301—Composition I .....	3
MATH 1316—College Trigonometry .....	3
GOVT 2301—US and Texas Politics and Constitutions .....	3
	<b>15</b>

Fourth Term	
SRVY 2440—Advanced Plane Surveying.....	4
SRVY 2342—Global Positioning System Techniques for Surveying and Mapping.....	3
DFTG 2421—Topographic Drafting .....	4
ENGL 2311—Technical Report Writing.....	3
SRVY 2365—Practicum or Field Experience in Surveying.....	3
	<b>17</b>
<b>Associate of Applied Science Degree Total</b>	<b>64</b>
<b>Capstone Experience: SRVY 2365</b>	

### Geomatic Surveying Technology Certificate of Technology

#### South Campus Only

First Term	Credit
SRVY 1301—Introduction to Surveying.....	3
SRVY 2343—Surveying—Legal Principles I.....	3
SRVY 1441—Land Surveying.....	4
SRVY 1313—Plane Surveying.....	3
SRVY 2313—Control Surveying .....	3
	<b>16</b>

## Technical Programs

### Second Term

SRVY 2344–Surveying–Legal Principles II .....	3
SRVY 2365–Practicum or Field Experience in Surveying.....	3
SRVY 2440–Advanced Plane Surveying.....	4
SRVY 2342–Global Positioning System Techniques for Surveying and Mapping.....	3
DFTG 2421–Topographic Drafting .....	4
	<b>17</b>

### Certificate of Technology Total

**33**

Capstone Experience: SRVY 2365

## Geomatic Surveying Technology Occupational Certificate

	Credit
DFTG 1405–Technical Drafting .....	4
SRVY 1301–Introduction to Surveying.....	3
SRVY 2343–Surveying–Legal Principles I.....	3
SRVY 1441–Land Surveying.....	4
SRVY 1313–Plane Surveying.....	3

### Occupational Certificate Total

**17**

Capstone Experience: SRVY 1313

## Gerontology Services

The Gerontology Services Program is designed to prepare students for careers in the field of aging. Due to a tremendous shift in the human experience, individuals are living longer with much healthier lifestyles. The Gerontology Services Program addresses issues of aging and the study of human growth and development. The older population is the largest consumer of health care services and presents great social challenges. These individuals are an increasingly diverse group with high expectations of health care providers. This new focus on healthcare for the elderly calls for the delivery of specialty programs developed within the context of a multidisciplinary approach.

The Gerontology Services Program courses provide students with an opportunity for education relative to the social, psychological, health, and wellness aspects of an aging population. Both the Associate of Applied Science Degree and the certificate of gerontology programs are designed to provide educational opportunities for those individuals who are interested in working directly, or indirectly, with the elderly population. The courses are designed to assist individuals to perform a variety of functions, including identifying the physical, mental and emotional changes that occur as a result of aging and to distinguish between healthy persons and aging persons with infirmities.

## Gerontology Services

### Associate of Applied Science Degree

#### North Campus Only

#### First Term

GERS 1301–Introduction to Gerontology .....	3
GERS 1351–Sociology of Aging.....	3
GERS 1303–Fitness and Wellness for Aging Populations .....	3
HITT 1305–Medical Terminology I.....	3
ITSC 1309–Integrated Software Applications I.....	3
PHED Activity .....	1
	<b>16</b>

#### Second Term

GERS 2331–Contemporary Issues in Aging .....	3
GERS 2333–Legal and Ethical Issues .....	3
GERS 2330–Issues of Long-Term Care.....	3
GERS 1402–Directing Activities in Long-Term Care Environ.....	4
GERS 1345–Policies and Programs for Older Adults .....	3
	<b>16</b>

#### First Summer Term

GERS 2371–Fundamental Applications of Long-Term Care.....	3
GERS 2366–Practicum (or Field Experience)–Adult Development and Aging or GERS 2360–Clinical–Gerontology .....	3
	<b>6</b>

#### Third Term

HITT 1374–Anatomy and Physiology .....	3
SPCH 1318–Interpersonal Communications .....	3
MATH 1333–Contemporary Mathematics for Technical Programs....	3
ENGL 1301–Composition I .....	1
	<b>12</b>

#### Fourth Term

SOCI 1301–Introduction to Sociology .....	3
PSYC 2301–General Psychology .....	3
ENGL 2311–Technical Report Writing.....	3
*Humanities or Fine Arts .....	3
PHED Activity .....	1
	<b>13</b>

### Associate of Applied Science Degree Total

**63**

Capstone or Field Experience: GERS 2366 or GERS 2360

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*

## Gerontology Service Certificate of Technology

### North Campus Only

#### First Term

ITSC 1309—Integrated Software Application I .....	3
GERS 1301—Introduction to Gerontology .....	3
GERS 1351—Sociology of Aging.....	3
HITT 1305—Medical Terminology I.....	3
GERS 1303—Fitness and Wellness for Aging .....	3
	<b>15</b>

#### Second Term

GERS 2331—Contemporary Issues in Aging .....	3
GERS 2333—Legal and Ethics Issues.....	3
GERS 2330—Issues of Long-Term Care.....	3
GERS 1345—Policies and Programs for Older Adults .....	3
GERS 1402—Directing Activities in Long-Term Care Environ.....	4
	<b>16</b>

#### First Summer Term

GERS 2371—Fundamental Applications of Long-Term Care.....	3
GERS 2366—Practicum (or Field Experience)—Adult Development and Aging or GERS 2360—Clinical-Gerontology.....	3
	<b>6</b>

#### Certificate of Technology Total

**37**

External Field Experience: GERS 2366 or GERS 2360

## Health Information Management

### Health Information Management Associate of Applied Science Degree

#### North Campus Only

The associate degree program is designed to train health information management personnel to perform a variety of technical functions including organizing, analyzing, coding, and technically evaluating health information. Health information technicians work to ensure that complete and accurate records are kept for each patient in a health care facility. The program is accredited by the Commission on Accreditation for Health Information and Information Management (CAHIIM) in cooperation with the Council on Accreditation of the American Health Information Management Association. Students are eligible to apply to write the national exam for the RHIT after completion of the A.A.S. degree.

#### Summer Term

*ITSC 1309—Integrated Software Applications I .....	3
	<b>3</b>

#### First Term

*HITT 1305—Medical Terminology .....	3
PHED Activity .....	1
*HITT 1355—Health Care Statistics .....	3
*ENGL 1301—Composition I.....	3
*HITT 1301—Health Data Content and Structure .....	3
SPCH 1315—Public Speaking or SPCH 1321—Business and Professional Speech.....	3
	<b>16</b>

#### Second Term

*HITT 1345—Health Care Delivery Systems.....	3
*HITT 1374—Anatomy and Physiology .....	3
*HITT 1341—Coding and Classification Systems .....	3
*ENGL 2311—Technical Report Writing .....	3
*HPRS 2301—Pathophysiology.....	3
	<b>15</b>

#### Summer Term

*HITT 1353—Legal/Ethical Aspects of Health Information.....	3
**Humanities or Fine Arts.....	3
	<b>6</b>

#### Third Term

MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra or Natural Science .....	3-4
*HITT 2360—Clinical I .....	3
HITT 2335—Coding and Reimbursement Methodologies .....	3
*HITT 2346—Advanced Medical Coding .....	3
PSYC 2301—General Psychology .....	3
	<b>15-16</b>

#### Fourth Term

*HITT 2343—Quality Assessment and Performance Improvement .....	3
*HITT 2361—Clinical II .....	3
*HITT 2339—Health Information Organization and Supervision.....	3
*HITT 2249—RHIT Competency Review.....	2
ITSW 2334—Advanced Spreadsheets.....	3
PHED Activity .....	1
	<b>15</b>

#### Associate of Applied Science Degree Total

**70-71**

External Field Experience: HITT 2361

Credential Exam: RHIT National Certification Exam

**Note: Students must pass each HITT and HPRS course listed in the Health Information Management A.A.S. degrees, certificate of technology, and occupational certificate plans with a grade of C to be eligible to receive either the degree or any of the certificates.**

# Technical Programs

**\*\*Note:** Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences section of the Transfer Core Curriculum.

## Cancer Data Management Occupational Certificate

### North Campus Only

First Term	Credit
*HITT 1372–Cancer Data Management I .....	3
*HITT 1301–Health Data Content and Structure .....	3
*HITT 1305–Medical Terminology .....	3
*HPRS 2301–Pathophysiology.....	3
	<u>12</u>

### Second Term

*HITT 1374–Anatomy and Physiology .....	3
*HITT 1373–Cancer Data Management II .....	3
*HITT 1361–Clinical-Health Information/Medical Records Technology/ Technician.....	<u>3</u>
	<b>9</b>

### Occupational Certificate Total

**21**

### External Field Experience: HITT 1361

**Note:** Students must pass each HITT and HPRS course listed in the Health Information Management A.A.S. degrees, certificate of technology, and occupational certificate plans with a grade of C to be eligible to receive either the degree or any of the certificates.

## Medical Billing and Coding Certificate of Technology

### North Campus Only

First Term	Credit
*HITT 1305–Medical Terminology .....	3
*HPRS 2301–Pathophysiology.....	3
MDCA 1343–Medical Insurance.....	3
*HITT 1301–Health Data Content .....	<u>3</u>
	<b>12</b>

### Second Term

*HITT 1341–Coding and Classification Systems .....	3
*HITT 2346–Advanced Medical Coding .....	3
HITT 1370–Advanced Medical Insurance .....	3
HITT 1353–Legal and Ethical Aspects of Health Information.....	<u>3</u>
	<b>12</b>

### Summer Term

HITT 1260–Clinical - Health Information/Medical Records Technology/Technician .....	<u>2</u>
	<b>2</b>

### Certificate of Technology Total

**26**

### External Field Experience: HITT 1260

**\*Note:** Students must pass each HITT and HPRS course listed in all Health Information Management A.A.S. degrees, Certificates of Technology, and Occupational certificates with a grade of C to be eligible to receive either the degree or any of the certificates.

## Medical Coding Certificate of Technology

### North Campus Only

First Term	Credit
*HITT 1305–Medical Terminology .....	3
*HITT 1301–Health Data Content and Structure .....	3
*HITT 1374–Anatomy and Physiology .....	3
*HPRS 2301–Pathophysiology.....	3
*HITT 1341–Coding and Classification Systems .....	<u>3</u>
	<b>15</b>

### Second Term

*HITT 1345–Health Care Delivery Systems.....	3
*ITSC 1309–Integrated Software Applications I .....	3
HITT 2335–Coding and Reimbursement Methodologies .....	3
*HITT 1353–Legal and Ethical Aspects of Health Information.....	3
*HITT 2346–Advanced Medical Coding .....	<u>3</u>
	<b>15</b>

### Summer Term

HITT 1360–Clinical–Health Information/Medical Records Technology/ Technician.....	<u>3</u>
	<b>3</b>

### Certificate of Technology Total

**33**

### Capstone Experience: HITT 1360

**Note:** Students must pass each HITT and HPRS course listed in the Health Information Management A.A.S. degrees, certificate of technology, and occupational certificate plans with a grade of C to be eligible to receive either the degree or any of the certificates.

**Courses indicated by (\*) are also offered via Distance Learning (Internet)**

## Instrumentation Technology

### Instrumentation Technology Associate of Applied Science Degree

#### Central Campus Only

Instrumentation Technology training at San Jacinto Community College District falls into three categories: instrumentation installation, general instrument maintenance, and control systems technology. Our program is designed so that a student can achieve success in all three of these areas.

Instrumentation technology is arguably the most technologically challenging field in industry today. Highly trained instrument technicians, also known as a control systems technologists, are responsible for installing, calibrating, and troubleshooting individual process instruments, as well as complete control systems. They are expected to understand the workings of a process, as well as the complexity of the control system.

Computer control in the processing industry provides a platform for more sophisticated control strategies, and requires connecting intelligent devices together through various networking systems and protocols. Therefore, today's control systems technologist must be able to navigate among various intelligent devices and implement sophisticated control strategies if they are to be successful in troubleshooting control system problems. Our program addresses these issues in one of the most comprehensive industrial computer control labs in the country.

Key facilities of the Instrumentation Technology Program at San Jacinto Community College District are a fully equipped pneumatic control lab and an analog electronic lab control. We also have a ten-station SLC 5/03 Programmable Logic Controller (PLC) lab and a ten-station Emerson Process Management DeltaV Distributed Control System (DCS) lab with ten fully operational flowing process instrumented stations. In addition, we have access to a full-sized functioning distillation (ethylene glycol and water separation) unit to explore maintenance issues and control strategies.

Recently we started a new day program where a student can complete all of the classes necessary to earn a certificate of technology in two semesters.

Our primary focus is in providing the local processing industry with good, trainable entry-level technicians. However, our students will have the latitude of working in other related areas such as oil exploration and production, and municipal water treatment facilities for cross-country

pipeline companies, and electrical power plants, and in manufacturer field technician positions.

First Term	Credit
INTC 1312—Introduction to Instrumentation and Safety .....	3
INTC 1301—Principles of Industrial Measurement.....	3
ENGL 1301—English Composition I.....	3
ELPT 1311—Basic Electrical Theory.....	3
*MATH 1333—Contemporary Mathematics for Technical Programs .	3
PHED Activity .....	1
	<b>16</b>

Second Term	Credit
INTC 1315—Final Control Elements.....	3
INTC 1322—Analog Electronic Instrumentation I.....	3
INTC 1355—Unit Operations.....	3
**Behavioral or Social Science.....	3
ENGL 2311—Technical Report Writing.....	3
PHED Activity .....	1
	<b>16</b>

Third Term	Credit
INTC 1341—Principles of Automatic Control.....	3
INTC 1350—Digital Measurement Controls.....	3
INTC 1353—Analog Electronic Instrumentation II.....	3
INTC 1372—Principles of Industrial Measurement II.....	3
Approved Elective .....	3
Speech .....	3
	<b>18</b>

Fourth Term	Credit
ELPT 2319—Programmable Logic Controllers I.....	3
INTC 1371—Distributed Control Systems .....	3
INTC 1348—Analytical Instrumentation .....	3
INTC 2330—Troubleshooting.....	3
INTC 2388—Internship-Instrumentation Technology/Technician or Approved Elective.....	3
**Humanities or Fine Arts .....	3
	<b>18</b>

**Associate of Applied Science Degree Total 68**

**Capstone Experience: INTC 1371**

*\* Students desiring to obtain a baccalaureate degree should take Math 1314—College Algebra.*

*\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

Approved Electives:  
INTC 2333                      INTC 2339

## Technical Programs

### Instrumentation Technology Certificate of Technology

**Central Campus Only**

	Credit
INTC 1312—Introduction to Instrumentation and Safety Tech .....	3
INTC 1301—Principles of Industrial Measurement .....	3
ELPT 1311—Basic Electrical Theory .....	3
INTC 1315—Final Control Elements .....	3
INTC 1322—Analog Electronic Instrumentation I .....	3
INTC 1341—Principles of Automatic Control .....	3
INTC 1350—Digital Measurement and Controls .....	3
INTC 1353—Analog Electronic Instrumentation II .....	3
INTC 1371—Distributed Control System .....	3
INTC 1372—Principles of Industrial Measurement II .....	3
ELPT 2319—Programmable Logic Controllers I .....	3
Approved Elective .....	3
<b>Certificate of Technology Total</b>	<b>36</b>
<b>Capstone Experience: INTC 1371</b>	

Approved Electives

INTC 1348	INTC 1355	INTC 2330	INTC 2333
INTC 2339			

### Instrumentation Technology Certificate of Technology

**Continuing Education**

**Central Campus Only**

	Contact Hours
INTC 1001—Principles of Industrial Measurement .....	112
INTC 1003—Introduction to Instrumentation .....	128
INTC 1043—Application of Industrial Automatic Controls .....	90
INTC 1071—Mounted Instruments .....	75
INTC 1056—Instrumentation Calibration .....	75
INTC 2031—Instrumentation Trouble Shooting .....	78
<b>Certificate of Technology Total</b>	<b>558</b>
<b>Capstone Experience: INTC 2031</b>	

## International Business and Trade

See Business Management

## Interior Design

### Interior Design Associate of Applied Science Degree

**Central Campus Only**

This program is designed to develop the ability to identify, research, and creatively solve problems relative to interior spaces, including programming, design analysis, and space planning. The students will work with commercial and residential interiors, prepare presentations, and learn business procedures used by interior designers.

Training includes six terms of study in interior design and related courses. However, a student may file for an associate of applied science degree after successful completion of the first two years of the program. Students may continue their study to complete the 18 term hours in the third year of the program and receive a certificate of technology, the professional credential in interior design. This credential qualifies the graduate to enter the profession of interior design as a beginning professional. The curriculum provides a balance of technical, creative, and business training necessary for a career in interior design. An applicant for interior design registration by examination who begins their education after September 1, 2006, must graduate from a program approved by FIDER.

	Credit
<b>First Term</b>	
INDS 1411—Fundamentals of Interior Design .....	4
INDS 1451—History of Interiors I .....	4
INDS 2407—Textiles for Interior Design .....	4
DFTG 1413—Drafting for Specific Occupations .....	4
PHED Activity .....	1
	<b>17</b>

<b>Second Term</b>	
INDS 1449—Fundamentals of Space Planning .....	4
INDS 1452—History of Interiors II .....	4
INDS 2421—Presentation Drawing .....	4
DFTG 1417—Architectural Drafting—Residential .....	4
PHED Activity .....	1
	<b>17</b>

<b>Summer Term</b>	
*Humanities or Fine Arts .....	3
	<b>3</b>

## Third Term

INDS 1415—Materials, Methods and Estimating.....	4
INDS 2413—Residential Design I.....	4
INDS 1445—Commercial Design I.....	4
ENGL 1301—Composition I.....	3
MATH 1333—Contemporary Mathematics for Technical Programs .....	3
	<b>18</b>

## Fourth Term

INDS 2435—Residential Design II.....	4
INDS 2425—Professional Practices for Interior Designers.....	4
INDS 2386—Internship—Interior Design .....	3
*Behavioral or Social Science .....	3
SPCH 1315—Public Speaking or SPCH 1321—Business and Professional Speech.....	3
	<b>17</b>

## Associate of Applied Science Degree Total

**72**

**Capstone Experience: INDS 2386**

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

## Interior Design

### Certificate of Technology

#### Central Campus Only

	<b>Credit</b>
INDS 1411—Fundamentals of Interior Design.....	4
INDS 1451—History of Interiors I.....	4
INDS 2407—Textiles for Interior Design.....	4
DFTG 1413—Drafting for Specific Occupations or DFTG 1417—Architectural Drafting—Residential .....	4
INDS 1449—Fundamentals of Space Planning .....	4
INDS 1452—History of Interiors II.....	4
INDS 1415—Materials, Methods, and Estimating.....	4
INDS 2421—Presentation Drawing.....	4
INDS 2413—Residential Design I.....	4
INDS 2425—Professional Practices for Interior Design .....	4

#### Certificate of Technology Total

**40**

**Capstone Experience: INDS 2413**

## Interior Design

### Professional Credential in Interior Design

#### Central Campus Only

The following courses are required for a second certificate of technology titled The Professional Credential in Interior Design.

## Fifth Term

DFTG 2428—Architectural Drafting—Commercial.....	4
INDS 2431—Commercial Design II .....	4
	<b>8</b>

## Sixth Term

INDS 2387—Internship—Interior Design .....	3
Engineering Design Graphics .....	4
FMLD 1372—Dynamics of Human Relationships.....	3
	<b>10</b>

## Professional Credential Total

**18**

**Capstone Experience: INDS 2431**

## Interior Decorators

### Certificates of Specialization

#### Central Campus Only

The following departmental certificates of specialization are offered to fulfill the goals of students interested in design courses for home use or to provide training for entry-level job placement.

#### Home Design

INDS 1411—Fundamentals of Interior Design  
INDS 2407—Textiles for Interior Design  
INDS 2435—Residential Design II  
INDS 1415—Materials, Methods, and Estimating  
INDS 2413—Residential Design I

#### Interior Decorator's Assistant

INDS 1411—Fundamentals of Interior Design  
DFTG 1413—Drafting for Specific Occupations  
INDS 2421—Presentation Drawing  
INDS 2407—Textiles for Interior Design  
INDS 1415—Materials, Methods, and Estimating

#### Interior Decorator's Assistant Applicants must also

#### Select Three (3) courses from the following list:

INDS 1451—History of Interiors I  
INDS 1452—History of Interiors II  
INDS 1449—Fundamentals of Space Planning  
INDS 2431—Commercial Design II  
INDS 2413—Residential Design I  
INDS 2435—Residential Design II

#### Display Specialist

INDS 1411—Fundamentals of Design  
INDS 2413—Residential Design I  
INDS 2387—Internship—Interior Design  
INDS 2421—Presentation Drawing

## Technical Programs

### Law Enforcement

See Criminal Justice

### Legal Assistant

See Paralegal

### Management Development

See Business Management

### Medical Assisting

#### Medical Assistant Certificate of Technology

##### North Campus Only

First Term	Credit
HITT 1374–Anatomy and Physiology for Applied Health.....	3
HITT 1305–Medical Terminology .....	3
HPRS 2301–Pathophysiology .....	3
MDCA 1421–Administrative Procedures.....	4
MDCA 1343–Medical Insurance .....	3
	<b>16</b>
<b>Second Term</b>	
HITT 1353–Legal and Ethical Aspects of Health Information.....	3
BUSI 1304–Business Report Writing and Correspondence.....	3
MDCA 1348–Pharmacology and Administration of Medications.....	3
MDCA 1371–Medical Assistant Interpersonal and Communication Skills.....	3
MDCA 1417–Procedures in a Clinical Setting .....	4
	<b>16</b>
<b>Post-Year 1</b>	
<b>Summer Session</b>	
MDCA 1254–Certified Medical Assistant Exam Review.....	2
MDCA 1560–Clinical.....	5
	<b>7</b>
<b>Certificate of Technology Total</b>	<b>39</b>
<b>External Learning Experience: MDCA 1560</b>	

**Note:** Students must pass each course listed in the certificate for Medical Assistant with a grade of C or higher to be eligible to receive a certificate of technology.

### Medical Imaging Technology

#### Medical Radiography Associate of Applied Science Degree

##### Central Campus Only

*A criminal background check and/or drug screening is required of all Health Science students attending clinical courses, or practicum; and may be required prior to admission to the program.*

**Mission Statement:** The mission and purpose of the Medical Imaging Department is to educate and train students for entry level employment in radiography, computed tomography and magnetic resonance imaging.

Upon graduation the student will:

- be proficient in areas of patient care, aseptic technique, and infection control;
- demonstrate communication skills, employ medical ethics, and show an understanding of medicolegal issues;
- properly operate radiographic equipment to produce images of diagnostic quality;
- demonstrate proper radiation protection skills;
- evaluate images or radiographs for diagnostic quality;
- locate pertinent anatomy and pathology on images or radiographs;
- perform standard radiographic positions and projections leading to completion of radiographic examinations;
- use reasoning and judgment to adapt the standard methods of radiographic exams upon evaluation of patient condition; and
- be familiar with special radiographic procedures and other types of medical imaging to include sonography, magnetic resonance imaging, mammography, and computed tomography, as well as explain the general indications for use of each.

The program is accredited by the Joint Review Committee on Education in Radiologic Technology. Upon completion of the program the student is granted an associate of applied science degree and is eligible to apply for certification examination given by the American Registry of Radiologic Technologists (ARRT) in diagnostic medical radiography.

The program curriculum is a balance of general educational and technical courses, as well as supervised clinical practicum work at local hospitals. This combination provides the student an opportunity for educational development and skill competency during the 24-month program.

Prior to entering the Radiography Program, students may take any of the general liberal arts courses required in the Program. Medical Radiography students must earn a grade of C or above in each Medical Radiography (RADR) course and maintain an overall grade point average of at least 2.0 in order to graduate from the Medical Radiography program.

If a student earns a grade of D, W, or F in a medical imaging (RADR) course, the student will not be permitted to continue or to graduate from the program until that course has been repeated and a grade of C or above has been earned. Students earning grades of less than a C in 3 RADR courses will be suspended from the program.

Students who do not enroll in the Medical Radiography program for one or more semesters after beginning the program must make written petition to the Medical Imaging department chair for re-entry into the program.

Because clinical space is limited, students are admitted on a competitive basis. Those seeking admission should first apply to San Jacinto Community College District and gain acceptance to the College. The Medical Radiography Program holds pre-enrollment meetings throughout the year for those interested in the program. For dates and times of these pre-enrollment meetings, you can call the Medical Imaging Department at 281.476.1871. Attendance at a pre-enrollment meeting is required to be able to apply to the program. Program admission criteria and the selection process are explained at the pre-enrollment information meeting.

### Program Admission Criteria

Applicants must meet the College's general admission requirements, as well as the program admission criteria. After acceptance into the program, an applicant must have a physical examination by a licensed physician (M.D., D.O.) and an orientation with a member of the Department of Medical Imaging.

Students who apply for admission to the Medical Radiography Program will be selected on the basis of their highest ACT/SAT test scores or their highest grade point average at San Jacinto Community College District, dependent upon the option under which they apply (Option A or Option B following).

**Option A:** SAT score of 680 or above on a test taken prior to April 1995 or a score of 810 or above on an SAT taken on or after April 1, 1995; or an ACT composite score of 18 or above (ACT composite score of 15 or above if taken before October 1989).

**Option B:** Applicants must complete at San Jacinto Community College District nine semester hours as specified below with no grade lower than C.

- ITSC 1309 or Speech, or
- ENGL 1301 or Humanities/Visual or Performing Arts, or
- MATH 1314 or MATH 1333

Applicants seeking admission by Option B may petition the admission coordinator to take a more advanced mathematics or English course if they have completed the above stated courses with a grade of C or above at another accredited institution.

Students must apply for admission to the Department of Medical Imaging by submitting an application and all required official documents to the Office of Enrollment Services at San Jacinto Community College District Central. ACT and/or SAT scores will be requested by the department as well.

Applicants to the Medical Radiography Program will be notified by mail regarding their acceptance. Applicants who are not selected for admission to the Medical Radiography Program must reapply to be considered in the future. Applicants who are accepted for admission into the Medical Radiography Program, but who do not enroll, must also reapply.

<b>First Term</b>	<b>Credit</b>
RADR 1260—Clinical—Medical Radiologic Tech I.....	2
RADR 1309—Introduction to Radiography and Patient Care.....	3
RADR 1313—Principles of Radiographic Imaging I.....	3
RADR 1317—Radiographic Anatomy and Physiology I.....	3
RADR 1411—Basic Radiographic Procedures.....	4
PHED Activity.....	1
	<b>16</b>

<b>Second Term</b>	
RADR 1360—Clinical Medical Radiologic Tech. II.....	3
RADR 1318—Radiographic Anatomy and Physiology II.....	3
RADR 2305—Principles of Radiographic Imaging II.....	3
RADR 2401—Intermediate Radiographic Procedures.....	4
MATH 1333—Contemporary Mathematics for Technical Programs.....	3
	<b>16</b>

<b>Post-Year 1 Summer Session</b>	
RADR 2360—Clinical Medical Radiologic Tech III.....	3
RADR 2309—Radiographic Imaging Equipment.....	3
	<b>6</b>

## Technical Programs

### Third Term

RADR 2333—Advanced Medical Imaging .....	3
RADR 2361—Clinical Medical Radiologic Tech IV .....	3
PSYC 2301—General Psychology .....	3
ENGL 1301—Composition I .....	3
Speech .....	3
	<b>15</b>

### Fourth Term

RADR 2213—Radiation Biologic Effects and Protection.....	2
RADR 2362—Clinical Medical Radiologic Tech V.....	3
*Humanities or Fine Arts .....	3
ITSC 1309—Integrated Software Applications I.....	3
PHED Activity .....	1
	<b>12</b>

### Post-Year 2

#### Summer Session

RADR 2335—Radiologic Technology Seminar .....	3
RADR 2117—Radiographic Pathology.....	1
RADR 2363—Clinical Medical Radiologic Tech.....	3
	<b>7</b>

**Associate of Applied Science Degree Total** **72**

**Capstone Experience: ARRT Examination**

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.

Occupational Certificate Admission Criteria: Certification in Medical Radiography by ARRT or eligible for pending examination. Documents must be presented to the Department of Medical Imaging chair at the time of application.

## Computed Tomography Occupational Certificate

### Central Campus Only

	<b>Credit</b>
RADR 2340—Sectional Anatomy for Medical Imaging.....	3
CTMT 2332—Principles of Computed Tomography .....	3
CTMT 2336—Computed Tomography Equipment and Methodology .....	3
CTMT 2360—Clinical 1—Computed Tomography Technology/ Technician .....	3
CTMT 2361—Clinical 2—Computed Tomography Technology/ Technician .....	3
<b>Occupational Certificate Total</b>	<b>15</b>

**Capstone Experience: CTMT 2361**

## Magnetic Resonance Imaging Occupational Certificate

### Central Campus Only

	<b>Credit</b>
RADR 2340—Sectional Anatomy for Medical Imaging.....	3
MRIT 2330—Principles of Magnetic Resonance Imaging .....	3
MRIT 2334—Magnetic Resonance Equipment and Methodology .....	3
MRIT 2360—Clinical 1—Magnetic Resonance Imaging Technology/Tech.....	3
MRIT 2361—Clinical 2—Magnetic Resonance Imaging Technology/Tech.....	3
<b>Occupational Certificate Total</b>	<b>15</b>

**Capstone Experience: MRIT 2361**

### Degree Planning for Registered Medical Radiographer (ARRT)

This degree program is provided as a means for registered medical radiographers to earn an associate of applied science degree from San Jacinto Community College District in Medical Radiography.

The student candidates must be graduates of an American Medical Association and Committee on Allied Health Education and Accreditation (CAHEA) approved program of medical radiography and must be registered by The American Registry of Radiologic Technologists (ARRT). Candidates must present a notarized copy of their current ARRT certificate to the department chair before registering for the required courses.

In addition to being currently certified by The American Registry of Radiologic Technologists (ARRT), the student must complete 28 semester hours of academic course work and 12 semester hours of Medical Radiography (RADR) course work as specified below in order to be eligible to receive the Associate of Applied Science Degree in Medical Radiography.

- MATH 1333—Contemporary Mathematics for Technical Programs
- ENGL 1301—Composition I
- \*Humanities or Fine Arts
- PSYC 2301—General Psychology
- SPCH—Any three-semester hour speech course
- ITSC 1309—Integrated Software Applications I
- PHED Activity—two semester hours
- RADR 2309—Radiographic Imaging Equipment
- RADR 2333—Advanced Medical Imaging
- RADR 2213—Radiation Biologic Effects and Protection

All other requirements for the associate of applied science degree must be met as specified in the associate of applied science degree section of this Catalog.

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*

## Medical Laboratory Technology

### Medical Laboratory Technology Associate of Applied Science Degree

#### Central Campus Only

*A criminal background check and/or drug screening is required on all Health Science students attending clinical courses, or practicum; and may be required prior to admission to the program.*

The Medical Laboratory Technology Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 8410 W. Bryn Mawr Ave., Suite 670, Chicago, Illinois, 60631, 773.714.8880. Upon completion of the program, the student is granted an associate of applied science degree and is eligible to apply for the certification examination given by the Board of Registry of the American Society of Clinical Pathologists and/or the National Certification Agency for Medical Laboratory Personnel.

The program curriculum is a balance of general educational and technical courses, as well as supervised practicum work at area hospitals. This provides the student an opportunity for educational development, as well as skill competency.

Prior to entering the Medical Laboratory Technology Program, students may take any of the general liberal arts courses required in the Medical Laboratory Technology Program.

Medical Laboratory Technology students must earn a grade of C or above in each Medical Laboratory Technology course and required science courses, and maintain an overall grade point average of at least 2.0 in order to graduate from the Medical Laboratory Technology Program.

If a student earns a grade of D, W, or F in a Medical Laboratory Technology or science course, the student will be required to repeat the course in which the unsatisfactory grade was earned and pass that course with a grade of C or better in order to progress.

Clinical practicum absences must be made up within the term in which they occur.

Because clinical practicum space is limited, students are admitted on a competitive basis. Applicants or those seeking

additional information should contact the associate dean or a representative from the Department of Clinical Laboratory Science. Applications for admission to the fall term class are accepted beginning in January.

Students are required to purchase uniforms and accessories. Each student is responsible for his/her own transportation to the clinical areas. Each student who registers for Medical Laboratory Technology is required to purchase student liability insurance the term he/she starts the clinical laboratory practicum.

#### Philosophy

The philosophy of the Department of Clinical Laboratory Science (CLS) parallels the philosophy of San Jacinto Community College District. Medical laboratory technology is that allied health care field which performs laboratory test procedures and analyses used in the diagnosis, treatment, and prognosis of disease, as well as the maintenance of health. Medical laboratory technicians practice their specialty under the direction of licensed physicians in various settings which include hospitals, private and public health clinics, and industrial laboratories.

The medical laboratory technician must be able to apply the knowledge acquired through academic studies and student labs to the clinical setting so that meaningful test results will be obtained to report to the patient's physician. Graduates of the Medical Laboratory Technology Program will be prepared to practice medical laboratory technology in all major areas of the clinical laboratory as contributing members of the health care team.

#### Program Admission Criteria

Students who apply for admission to the Program of Medical Laboratory Technology (MLT) will be selected on the basis of their highest ACT/SAT test scores or their highest grade point average at San Jacinto Community College District, dependent upon the option under which they apply (Option A or Option B following).

**Option A:** SAT score of 680 or above on test taken prior to April 1995 or a score of 810 or above on an SAT taken on or after April 1, 1995; or an ACT composite score of 18 or above (ACT composite score of 15 or above if taken before October 1989).

**Option B:** Applicants must complete at San Jacinto Community College District ten semester hours as specified below with no grade lower than C.

- BIOL 2401 and
- ENGL 1301 and
- MATH 1314 or MATH 1333

# Technical Programs

Applicants seeking admission by Option B may petition the admission coordinator to take a more advanced biology, mathematics or English course if they have completed the above stated courses with a grade of C or above at another accredited institution.

Students must apply for admission to the Program of Medical Laboratory Technology by submitting a formal application and all required official documents to the Office of Enrollment Services.

Applicants to the Medical Laboratory Technology Program will be notified by mail regarding their program admission status. Applicants who are not selected for admission to the Medical Laboratory Technology Program must reapply before the next term. Applicants who are accepted for admission to the Medical Laboratory Technology Program, but who do not enroll, must reapply. Applicants must meet the College's general admission requirements as well as the program admission criteria.

After acceptance into the program, an applicant must have a physical examination by a licensed physician (M.D., D.O.) and an orientation with a member of the Department of Clinical Laboratory Science.

Students are required to purchase uniforms and accessories.

First Year	Credit
<b>Summer Session</b>	
BIOL 2402–Human Anatomy and Physiology II .....	4
*MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	<u>3</u>
	7

First Term	
HPRS 1106–Medical Terminology .....	1
MLAB 1201–Introduction to Clinical Laboratory Science .....	2
PLAB 1223–Phlebotomy .....	2
MLAB 1415–Hematology .....	4
ENGL 1301–Composition I .....	3
BIOL 2401–Human Anatomy and Physiology I .....	<u>4</u>
	16

Second Term	
MLAB 1227–Coagulation .....	2
MLAB 1235–Immunology/Serology .....	2
MLAB 1311–Urinalysis and Body Fluids .....	3
MLAB 2434–(Clinical) Microbiology .....	4
SCIT 1495–Special Topics in Analytical Chemistry .....	<u>4</u>
	15

Post-Year 1	
MLAB 2166–Practicum I–Medical Laboratory Technician .....	1
MLAB 2431–Immunohematology .....	<u>4</u>
	5

Third Term	
MLAB 1231–Parasitology/Mycology .....	2
MLAB 2266–Practicum II–Medical Laboratory Technician .....	2
MLAB 2501–(Clinical) Chemistry .....	5
ITSC 1309–Integrated Software Applications I or BCIS 1305–Business Computer Applications .....	3
Speech .....	3
PHED Activity .....	<u>1</u>
	16

Fourth Term	
MLAB 2338–Advanced Topics in Medical Laboratory Technician .....	3
MLAB 2267–Practicum III–Medical Laboratory Technician .....	2
PSYC 2301–General Psychology .....	3
**Humanities or Fine Arts .....	3
PHED Activity .....	<u>1</u>
	12

**Associate of Applied Science Degree Total** **71**  
**Capstone Experience: MLAB 2338**

\* Students desiring to obtain a baccalaureate degree should take MATH 1314, College Algebra.

\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.

## Medical Laboratory Technology Clinical Laboratory Assistant Occupational Certificate

### Central Campus Only

	Credit
SPCH 1318–Interpersonal Communications .....	3
HPRS 1105–Medical Law/Ethics for Health .....	1
HPRS 1106–Medical Terminology .....	1
HPRS 1191–Special Topics in Health Professions .....	1
HPRS 1391–Special Topics in Health Professions .....	3
PLAB 1166–Practicum Phlebotomy .....	1
PLAB 1223–Phlebotomy .....	2
VNSG 1420–Anatomy and Physiology for Allied Health .....	<u>4</u>
<b>Occupational Certificate Total</b>	<b>16</b>
<b>Capstone Experience: HPRS 1191</b>	

## Mental Health Services Program

### Mental Health Clinical and Counseling

#### Psychology

#### Associate of Applied Science

#### North and South Campuses Only

#### Prerequisite Term Credit

BCIS 1305–Business Computer Applications or ITSC 1309–Integrated Software Applications I .....	3
	<b>3</b>

#### First Term Credit

SOCW 2361–Introduction to Social Work.....	3
PSYC 2301–General Psychology .....	3
ENGL 1301–Composition I .....	3
PSYT 1371–Mental Health Legal and Ethics Issues .....	3
PHED Activity .....	1
CMSW 1341–Behavior Modification and Cognitive Disorder .....	3
	<b>16</b>

#### Second Term

PHED Activity .....	1
PSYT 2331–Abnormal Psychology .....	3
SCWK 2301–Assessment and Case Management.....	3
VNSG 1423–Basic Nursing Skills.....	4
PSYT 2301–Psychology of Group Dynamics.....	3
	<b>14</b>

#### Summer Term

PMHS 2366–Practicum (or Field Experience)–Psychiatric/Mental Health Services Technician .....	3
	<b>3</b>

#### Third Term

SPCH 1318–Interpersonal Communications .....	3
PSYT 2321–Crisis Intervention.....	3
DAAC 1304–Pharmacology of Addiction.....	3
DAAC 1311–Counseling Theories.....	3
MATH 1314–College Algebra or MATH 1333–Contemporary Mathematics for Technical Programs .....	3
	<b>15</b>

#### Fourth Term

*Humanities or Fine Arts .....	3
DAAC 2307–Addicted Family Intervention .....	3
DAAC 2341–Counseling Alcohol and Other Drug Addictions .....	3
ENGL 1302–Composition II or ENGL 2311–Technical Report Writing.....	3
	<b>12</b>

#### Summer Term

DAAC 2366–Practicum–Substance Abuse/Addiction Counseling .....	3
	<b>3</b>

#### Associate of Applied Science Degree Total

Capstone Experience: PMHS 2366 and DAAC 2366	<b>66</b>
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### Mental Health Technician

#### Certificate of Technology

#### North and South Campuses Only

#### Prerequisite Term Credit

BCIS 1305–Business Computer Applications or ITSC 1309–Integrated Software Applications I .....	3
	<b>3</b>

#### First Term

SOCW 2361–Introduction to Social Work.....	3
PSYC 2301–General Psychology .....	3
ENGL 1301–Composition I .....	3
PSYT 1371–Mental Health Legal and Ethics Issues .....	3
CMSW 1341–Behavior Modification and Cognitive Disorder .....	3
	<b>15</b>

#### Second Term

PSYT 2331–Abnormal Psychology .....	3
SCWK 2301–Assessment and Care Management .....	3
VNSG 1323–Psychology of Group Dynamics .....	3
VNSG 1423–Basic Nursing Skills.....	4
PSYT 2301–Psychology of Group Dynamics.....	3
	<b>13</b>

#### Summer Term

PMHS 2366–Practicum( or Field Experience)–Psychiatric/Mental Health Services Technician .....	3
	<b>3</b>

#### Certificate of Technology Total 34

Capstone Experience: PMHS 2366

### Substance Abuse Counseling

#### Certificate of Technology

#### North and South Campuses Only

#### Prerequisite Term Credit

BCIS 1305–Business Computer Applications or ITSC 1309–Integrated Software Applications I .....	3
	<b>3</b>

#### First Term

## Technical Programs

SOCW 2361—Introduction to Social Work.....	3
DAAC 1311—Counseling Theories.....	3
DAAC 1304—Pharmacology of Addiction.....	3
PSYC 2301—General Psychology.....	3
PSYT 1371—Mental Health Legal and Ethical Issues.....	3
	<b>15</b>

### Second Term

PSYT 2331—Abnormal Psychology.....	3
DAAC 2307—Addicted Family Intervention.....	3
CMSW 1341—Behavior Modification and Cognitive Disorder.....	3
SCWK 2301—Assessment and Care Management.....	3
DAAC 2341—Counseling Alcohol and Other Drug Addictions.....	3
	<b>15</b>

### Summer Term

DAAC 2366—Practicum (or Field Experience)—Substance Abuse/ Addiction Counseling.....	3
	<b>3</b>

**Certificate of Technology Total** **36**

**Capstone Experience: DAAC 2366**

## Music

### Recording Option

#### Associate of Applied Science Degree

#### Central Campus Only

The Audio Engineering curriculum is designed for students seeking careers as sound recording or sound reinforcement engineers. Employment opportunities exist in recording studios, television and radio stations, convention centers, hotels, churches and other private entities. The training places a heavy emphasis on the theory and hands-on application of recording, mixing, and effects-processing equipment. Also required are musical proficiency and an understanding of business and music business systems.

#### First Term

	<b>Credit</b>
ENGL 1301—Composition I.....	3
MUSI 1181—Class Piano I.....	1
MUAP—Private Music Instruction or	
MUSI 1188—Class Percussion or	
MUSI 1192—Class Guitar or	
MUSI 1183—Class Voice I.....	1
MUSC 1327—Audio Engineering I.....	3
*MUSI 1301—Music Fundamentals.....	3
SPCH.....	3
PHED Activity.....	1
	<b>15</b>

#### Second Term

MUAP—Private Music Instruction.....	1
ENGL 2311—Technical Report Writing or	
ENGL 1302—Composition II.....	3
MUSC 1331—MIDI I.....	3
MUSI 1306—Listening to Music or	
MUSI 1310—American Popular Music.....	3
MUEN—Ensemble.....	1
MUSC 2427—Audio Engineering II.....	4
PHED Activity.....	1
	<b>16</b>

#### Summer Session

MATH 1314—College Algebra.....	3
MUSC 2101—Audio Engineering Practices.....	1
Behavioral or Social Science.....	3
	<b>7</b>

#### Third Term

MUAP—Applied Music—Private Music Instruction.....	2
MUEN—Ensemble.....	1
MUSC 2355—MIDI II.....	3
MUSC 2101—Audio Engineering Practices.....	1
MUSC 2447—Audio Engineering III.....	4
MUSI 1211—Music Theory I.....	2
MUSI 1216—Ear Training/Sight Singing I.....	2
	<b>15</b>

#### Fourth Term

MUSB 1305—Survey of Music Business.....	3
MUSC 2386—Internship—Recording Arts Technology/Technician.....	3
MUSC 1323—Audio Electronics Troubleshooting.....	3
MUSI 1212—Music Theory II.....	2
MUSI 1217—Ear Training/Sight Singing II.....	2
MUEN—Ensemble.....	1
	<b>14</b>

**Associate of Applied Science Degree Total** **67**

**Capstone Experience: MUSC 2386**

\*Subject to placement testing, a student placing out of MUSI 1301 may take MUSI 1211, 1212, 1216, and 1217 during the first year and substitute a three-hour elective for MUSI 1301.

Students may substitute private piano for class piano. A student whose major instrument is piano should substitute another secondary instrument.

Students planning to transfer into a bachelor's degree program in music may substitute MUSI 1307.

## Techniques of Audio Engineering Certificate of Technology

### Central Campus Only

#### First Term

	Credit
MUAP—Private Music Instruction or MUSI 1183—Class Voice I or MUSI 1188—Class Percussion or MUSI 1192—Class Guitar I .....	1
MUSC 1327—Audio Engineering I .....	3
MUSI 1181—Class Piano I .....	1
MUSB 1305—Survey of Music Business .....	3
MUSI 1301—Music Fundamentals .....	3
	11

#### Second Term

MUSC 1323—Audio Electronics Troubleshooting .....	3
MUSC 2427—Audio Engineering II .....	4
MUSC 1331—MIDI I .....	3
MUSP—Private Lesson .....	1
	11

#### Third Term

MUAP—Private Music Instruction .....	1
MUSC 2386—Internship—Recording Arts Technology/ Technician .....	3
MUSC 2355—MIDI II .....	3
MUSC 2101—Audio Engineering Practices .....	1
MUSC 2447—Audio Engineering III .....	4
	12

#### Fourth Term

MUSC 2101—Audio Engineering Practices .....	1
	1

**Certificate of Technology Total** **35**

**Capstone Experience:** MUSC 2386

## Broadcast Audio Technology Certificate of Technology

### Central Campus Only

In a unique cooperative effort, San Jacinto Community College District and Alvin Community College are offering a joint Certificate of Technology in Broadcast Audio Technology.

#### First Term

	Credit
MUSC 1327—Audio Engineering I (SJC) .....	3
RTVB 1380—Cooperative Education—Radio and Television Broadcasting I (ACC) .....	3

MUSC 1331—Musical Instrument Digital Interface (SJC) .....	3
RTVB 1355—Radio Television Announcing (ACC) .....	3
	12

#### Second Term

MUSC 2427—Techniques of Audio Engineering II (SJC) .....	4
MUSC 1323—Audio Electronics Troubleshooting (SJC) .....	3
RTVB 1317—Survey of Electronic Media (ACC) .....	3
RTVB 2380—Cooperative Education—Radio and Television Broadcasting II (ACC) .....	3
MUSC 2101—Audio Practices (SJC) .....	1
	14

#### Third Term

MUSC 2447—Audio Engineering III (SJC) .....	4
RTVB 1409—Audio/Radio Production I (ACC) .....	4
RTVB 1391—Special Topics in Radio and Television Broadcasting (ACC) .....	3
MUSC 2386—Internship—Recording Arts Technology/Technician (SJC) .....	3
	14

**Certificate of Technology Total** **40**

**Capstone Experience:** MUSC 2386, RTVB 1391

Approved Electives  
ENGL 1302

## Sound Recording Occupational Certificate

### Central Campus Only

#### First Term

	Credit
MUSB 1305—Survey of Music Business .....	3
MUSC 1331—Musical Instrument Digital Interface .....	3
*MUSC 1327—Audio Engineering I .....	3
	9

#### Second Term

MUSC 2101—Audio Engineering Practices .....	1
MUSC 1323—Audio Electronics Troubleshooting .....	3
*MUSC 2427—Audio Engineering II .....	4
	8

**Occupational Certificate Total** **17**

**Capstone Experience:** MUSC 2101

*\* Audio Engineering I and II may not be taken concurrently.*

# Technical Programs

## Non-Destructive Testing Technology

See Welding for related courses

### Non-Destructive Testing Technology Associate of Applied Science Degree

#### Central Campus Only

This program is designed to offer students entry-level skills in quality assurance/quality control of welded and metal products. Students may make this degree relevant to such industries as petrochemical construction and/or maintenance, nuclear construction, machining and metal working, underwater construction technologies, and aviation maintenance. Training in this program conforms to the American Society of Non-Destructive Testing Guidelines, SNT-TC-1A.

First Term	Credit
NDTE 1454–Intermediate Ultrasonic Testing .....	4
METL 1405–Welding Metallurgy I .....	4
QCTC 1446–Introduction to Testing and Inspection Systems .....	4
ITSC 1309–Integrated Software Applications I or BCIS 1305–Business Computer Applications .....	3
PHED Activity .....	1
	<b>16</b>
Second Term	
QCTC 2331–Standards and Codes .....	3
NDTE 1410–Liquid Penetrant/Magnetic Particle Testing .....	4
MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra .....	3
NDTE 1440–Eddy Current Testing or Approved Elective .....	4
ENGL 1301–Composition I .....	3
	<b>17</b>
Third Term	
WLDG 1528–Intro to Shielded Metal Arc Welding or Approved Elective .....	5
NDTE 2401–Advanced Ultrasonic Testing .....	4
ENGL 2311–Technical Report Writing .....	3
*Behavioral or Social Sciences .....	3
METL 2435–Welding Metallurgy II .....	4
	<b>19</b>
Fourth Term	
NDTE 1301–Film Interpretation of Weldments .....	3
Speech .....	3
PHED Activity .....	1

*Humanities or Fine Arts .....	3
WLDG 2380–Cooperative Education–Welding Technology/Welder .....	3
Approved Electives .....	5
	<b>18</b>
<b>Associate of Applied Science Degree Total</b>	<b>70</b>
<b>Capstone Experience: METL 2435</b>	

#### Approved Electives

DFTG 1405	MATH 1316	METL 1313	NDTE 2339
NDTE 2411	NDTE 2440	PTAC 2314	QCTC 1341
QCTC 1343	WLDG 1534		

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

### Non-Destructive Testing Technology Certificate of Technology

#### Central Campus Only

Students pursuing the non-destructive testing courses can earn the technical training necessary to begin working in the inspection field. San Jacinto Community College District offers the required classroom training in the basic five methods of MT, PT, VT, UT, and ET, required by the American Society of Non-Destructive Testing Society guidelines, SMT-TC-1A. Training in these areas prepare students for entry-level work in either conventional non-destructive testing careers or as additional knowledge for current inspectors or fabricators.

First Term	Credit
QCTC 1446–Introduction to Testing and Inspection Systems .....	4
NDTE 1454–Intermediate Ultrasonic Testing .....	4
METL 1405–Welding Metallurgy I .....	4
	<b>12</b>

#### Second Term

NDTE 1410–Liquid Penetrant/Magnetic Particle Testing .....	4
QCTC 2331–Standards and Codes .....	3
NDTE 1440–Eddy Current Testing or Approved Elective .....	4
ITSC 1309–Integrated Software Applications I .....	3
	<b>14</b>

#### Certificate of Technology Total

**Capstone Experience: METL 1405**

#### Approved Electives

METL 1313	METL 2435	NDTE 1301	NDTE 2339
NDTE 2401	NDTE 2411	NDTE 2440	

## Non-Destructive Testing Technology Occupational Certificate

### Central Campus Only

	<b>Credit</b>
NDTE 1454–Intermediate Ultrasonic Testing .....	4
METL 1405–Welding Metallurgy I .....	4
QCTC 1446–Introduction to Testing and Inspection Systems .....	4
NDTE 1410–Liquid Penetrant/Magnetic Particle Testing .....	4
NDTE 1471–Eddy Current Testing or Approved Elective .....	5
<b>Occupational Certificate Total</b>	<b>21</b>

**Capstone Experience:** METL 1405

#### Approved Electives

WLDG 1534	WLDG 2409	WLDG 2411	NDTE 1301
METL 2435	NDTE 2401	QCTC 2331	

## Quality Assurance Technology Occupational Certificate

### Central Campus Only

Persons interested in the field of quality assurance are introduced to Total Quality Management (TQM) concepts and applications as well as statistical testing methods. The students would then use these concepts and methods in industries utilizing auditing practices, quality controls, and inspection techniques.

<b>First Term</b>	<b>Credit</b>
QCTC 1343–Quality Assurance .....	3
PTAC 2314–Quality .....	3
QCTC 1446–Testing and Inspection Systems .....	4
QCTC 2331–Standards .....	3
QCTC 1341–Statistical Process Control .....	3
ITSC 1309–Integrated Software Applications I .....	3
<b>Occupational Certificate Total</b>	<b>19</b>

**Capstone Experience:** QCTC 1341

## Nursing

*A criminal background check and/or drug screening is required on all Health Science students attending clinical courses, or practicum; and may be required prior to admission to the program.*

San Jacinto Community College District offers three associate of applied science degree programs in Nursing. The generic (basic) RN program is offered on the Central Campus. Central Campus also offers the Transition to RN

program for LVN and Paramedic applicants. The South Campus offers the LVN/Paramedic to ADN Mobility degree for LVN and Paramedic applicants. Successful completion of course work in either of these programs qualifies students to make application for the National Council Licensure Examination–Registered Nurse (NCLEX–RN).

In addition to the associate degree nursing programs, the North and South campuses offer Vocational Nursing Programs. Successful completion of course work in this program qualifies students to make application to the Texas Board of Nurse Examiners to take the State Board Examination for Licensed Vocational Nurse.

## Associate Degree Nursing (RN) Associate of Applied Science Degree

### Central Campus Only

San Jacinto Community College District offers the Associate of Applied Science Degree Program in Nursing for selected candidates.

The associate degree nurse is prepared to practice within the discipline of nursing, using the nursing process and assuming legal, ethical, and professional accountability identified in the Nursing Practice Act. The graduate recognizes personal assets, potentials, limitations, and the responsibility for continued professional development. Practice of the graduate is at a beginning level in structured health care settings as manager and provider of care.

Completion of the prescribed courses qualifies students to make application for the National Council Licensure Examination–Registered Nurse (NCLEX–RN) required for all registered nurse candidates. A license to practice as a registered nurse (RN) is granted by the state to those graduates who pass this examination.

Nursing students receive their most of their education on the College campus where they share learning experiences with other College students.

Experience in patient care is gained in area hospitals and other health agencies. Professional nursing faculty provide instruction and supervision of students' clinical experience in area health care facilities. The clinical experience is concurrent with theory courses in general and professional education.

The primary purpose of this type of curriculum is to help the student develop as an individual and as a responsible citizen, who will become a competent practitioner in professional nursing.

The Secured Computerized Exit Test is administered upon completion of the nursing curriculum.

The program is accredited by the Texas Board of Nurse Examiners and the National League for Nursing Accrediting Commission (NLNAC), National League for Nursing Accrediting Commission, 61 Broadway–33rd floor, New York, NY 10006.

### Program Admission Criteria

Applicants must meet the College's general admission requirements, as well as the program's admission criteria, and must be assessed for college readiness in the areas of reading, mathematics, and writing to be considered for acceptance into the RN program (See the Texas Success Initiative section of this catalog). Candidates must apply during one of the application periods stated below. Selection for admissions to the Associate Degree Nursing program is competitive. Applicants to the Generic (basic) RN program are chosen based on performance in option A or B and overall academic performance. Applicants to the Transition to RN program (LVN and Paramedic applicants) are chosen based on overall academic performance and interview.

A student on current academic probation is ineligible to apply to the nursing program.

The department chair must interview students who have been on academic probation at any time prior to their applying for admission to the nursing program. Also, the students' admission must be approved by the Nursing Admission Review Committee.

**Option A:** SAT score of 680 or above on a test taken prior to April 1995 or a score of 810 or above on an SAT taken on or after April 1, 1995; or an ACT composite score of 18 or above (ACT composite score of 15 or above if taken before October 1989). A minimum cumulative GPA of 2.0 is required for all students who have previously attended college.

**Option B:** Applicants must complete at San Jacinto Community College District 10 semester hours as specified below with at least a B average on the three courses and no grade lower than C.

- BIOL 2401 or BIOL 2402, BIOL 2420 or BIOL 2421, and
- ENGL 1301, and
- MATH 1314 or MATH 1333

Applicants seeking admission by Option B may petition the director of admissions to take a more advanced biology, mathematics, or English course if they have completed the above stated courses with a grade of C or above at another accredited institution.

Students must apply for admission to the Associate Degree Nursing Program by submitting a formal application and all required official documents to the Office of Enrollment Services during the application periods stated below.

### Application Periods

- April 1 through June 1
- September 1 through November 1

Students seeking admission to the Associate Degree Nursing Program who have previously earned more than one grade of D or F in a nursing or a required biology course may not be eligible for admission to the Associate Degree Nursing Program. An ADN Admissions Review Committee composed of nursing faculty will review transcripts that indicate such grades, and the committee's decision regarding admission into the program will be final.

Applicants to the Associate Degree Nursing Program will be notified by mail regarding their program admission status. Applicants who are not selected for admission to the Associate Degree Nursing Program must reapply during the next application period. Applicants who are accepted for admission into the nursing program, but who do not enroll, must also reapply.

The acceptance letter to the nursing program will include application and fee information for the criminal background check and drug screening required prior to admission to the program.

### Program Information

1. All college transcripts must be submitted by applicants and evaluated by the Enrollment Services Office. Students desiring to transfer nursing course credits must also submit transcripts to the Nursing Department chair. In order to be considered for transfer, the course credit must have been earned within two years prior to the term the student enrolls in the San Jacinto Community College Associate Degree Nursing Program, and the grade earned in the course must be a C or better. The student may be required to submit additional course material in order to determine the course's equivalency to the required nursing course in the Associate Degree Nursing Program. Theory and skill proficiency performances may be required.
2. Credit earned in a required biology course can be applied to the Associate of Science Degree in Nursing only when the credit was earned within the past five years and the grade earned was a C or better. Credit earned in a required biology course exceeds the five-year stipulation if the credit was earned five or more years prior to the term in which the student enrolls in the first nursing course.

- Credit earned in a required biology course that exceeds the five-year stipulation may be applicable if it is determined by the admission coordinator to be equivalent to the required biology course and if the student takes and scores a 70 or above on a proficiency examination.
3. An applicant to the nursing program must be potentially eligible to write the licensure exam for registered nurses upon successful completion of the program. The applicant who has been convicted of a felony, implicated in substance abuse, or involved in activities considered inappropriate by the Board of Nurse Examiners for the State of Texas is not eligible to apply to enter the Associate Degree Nursing Program until he/she has received a declaratory order from the Board of Nurse Examiners granting permission to write the NCLEX–RN. Such an applicant should contact the Executive Secretary of the Board of Nurse Examiners for guidance in petitioning the Board for a decision of eligibility prior to applying for entry into the nursing program. The Board’s statement of eligibility must be submitted to the Associate Degree Nursing Department chair.
  4. A student on current academic probation is ineligible to enroll in the nursing program.
  5. Prior to being admitted into the nursing program, students may take any of the academic courses required in the nursing program and must maintain a 2.0 GPA or better.
  6. All prospective nursing students must have earned credit in BIOL 2401 or BIOL 2402, BIOL 2420 or BIOL 2421, and ENGL 1301, and MATH 1333 or MATH 1314 prior to enrolling in the nursing program.
  7. A grade of C or better must be earned in all nursing and required biology courses. A student who fails to earn a grade of C or greater in a stated prerequisite nursing course must repeat the course and earn a C or greater prior to enrolling in the course with the stated prerequisite.
  8. Selected applicants must attend program orientation with the department chair.
  9. Selected applicants must submit proof of the following to the Nursing Department:
    - A. Physical exam
    - B. Purchase of school uniform and accessories.
    - C. Current CPR certification for health professionals
    - D. Liability insurance (paid during registration).
    - E. The Vocational Nurse applicant must show proof of a current Texas license to practice Vocational Nursing. The Paramedic applicant must show a current Paramedic Certificate.
  10. Each nursing student is required to pay for and take computerized external tests.
  11. Clinical site and time assignments are made at the discretion of the College and its affiliates, and are subject to change without notice.
  12. Students must earn a minimum grade of C in theory and corresponding clinical nursing courses before progressing to the next nursing course.
  13. The student must earn a grade of C or above in all nursing courses and maintain an overall grade point average of at least 2.0 in order to continue in the nursing program.
 

If a student earns a grade of D or F in a nursing course, or a required biology course, the student will be placed on departmental probation. (Should this grade of D or F be earned in a course that meets only the first eight weeks of a term, the student will be placed on departmental probation at the end of the first eight weeks of that term.) The student must demonstrate an effort to correct circumstances that contributed to the lack of success in the failed nursing or required biology course.

If the student subsequently earns a grade of D or F in a nursing or course, even though the student may have repeated the course in which the first grade of D or F was earned and received a minimum grade of C, the student will be dismissed from the nursing program and will be placed on indefinite program suspension.

In a nursing course that meets only the first eight weeks of the term, the student will be dismissed from the nursing program at the end of the first eight weeks of the term and will be administratively withdrawn from all nursing courses.

Should the student earn a grade of D or F in more than one required nursing course or required biology course during the same term, the probationary period will be waived and the student will be dismissed from the nursing program immediately and placed on indefinite program suspension.
  14. The Nursing Department encourages students to maintain continuity in the nursing program. Students electing to withdraw must meet with the Nursing Department chair for counseling prior to withdrawing.
 

Students who elect to withdraw from nursing studies in good academic standing will be permitted to return to the nursing program on a space-available basis. Such students will be given priority for available space.

Students electing to withdraw from a nursing course due to poor academic standing or unsafe clinical performance will receive a "W with Failing Course Average" report. These reports have the same consequences as a failed

nursing course. The first "W with Failing Course Average" report places the student on Department Probation; a subsequent "W with Failing Course Average" report suspends the student from the nursing program. These program status changes will be kept in the students' files located in the nursing department.

A student who withdraws from a nursing or required biology course must meet with the Nursing Department chair for advisement in order to enroll in the following term. The student must make written petition and meet with the Nursing Department chair at least 45 days prior to the term of re-entry. To be readmitted to the nursing program, the student must satisfy the criteria specified by the Nursing Department re-entry policy.

15. Credit earned in a nursing course can be applied toward the Associate of Applied Science Degree in Nursing only when the credit was earned within the past two years, and the grade earned was a C or better. Credit earned in a nursing course exceeds the two-year stipulation if the credit was earned two or more years prior to the term in which the student enrolls or reenrolls in the nursing program.

16. A student not enrolled in a nursing course for one or more terms for any reason must make written petition for readmission. Consideration for readmission will be on an individual basis and as space permits. Such students must abide by the requirements for readmission as outlined in the Nursing Department re-entry policy.

Students seeking re-entry to the Associate Degree Nursing Program must submit a written request to the department chair prior to the dates listed below:

- Fall: July 15
- Spring: October 15
- Summer: April 15

Classes begin each fall and spring term. For information please contact the Associate Degree Nursing Department at 281.476.1842.

17. A student placed on indefinite suspension may petition for reentry after remaining out of the program for one eight-week Term by submitting a letter to the Nursing Appeals Committee.

## Associate Degree Nursing (RN) Associate of Applied Science Degree

### Central Campus Only

#### Prerequisites

BIOL 2401–Human Anatomy and Physiology I.....	4
BIOL 2402–Human Anatomy and Physiology II .....	4
BIOL 2420–Microbiology and Pathology or	

#### Credit

BIOL 2421–Introductory Microbiology.....	4
ENGL 1301–Composition I .....	3
*MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	3

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**Note: Students must satisfactorily complete BIOL 2401 or BIOL 2402, BIOL 2420 or BIOL 2421, and ENGL 1301, and MATH 1314 or MATH 1333 prior to enrolling in any nursing course.**

#### First Term

RNSG 1413–Foundations for Nursing.....	4
RNSG 1144–Nursing Skills Intermediate .....	1
RNSG 1215–Health Assessment .....	2
RNSG 1160–Clinical Nursing Intro.....	1
PSYC 2301–General Psychology .....	3

**11**

#### Second Term

RNSG 1341– Common Concepts of Adult Health .....	3
RNSG 1261–Clinical Nursing Common Concepts of Adult Health.....	2
RNSG 1343– Complex Concepts of Adult Health.....	3
RNSG 1262–Clinical Nursing Complex Concepts of Adult Health.....	2
RNSG 1301–Pharmacology .....	3
PSYC 2314–Life-Span Growth and Development .....	3
PHED Activity .....	1

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#### Post-Year 1

##### Summer Session

RNSG 2231–Advanced Concepts of Adult Health.....	2
RNSG 2260–Clinical Nursing Advanced Concepts of Adult Health .....	2

**4**

#### Third Term

RNSG 2201–Care of Children and Families .....	2
RNSG 2262–Clinical Nursing Care of Children and Families .....	2
RNSG 1251–Care of Child-Bearing Families.....	2
RNSG 1263–Clinical Nursing Care of Child-Bearing Families.....	2
ENGL 2311–Technical Report Writing.....	3
PHED Activity .....	1

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#### Fourth Term

RNSG 2213–Mental Health Nursing .....	2
RNSG 2261–Clinical Nursing Mental Health .....	2
RNSG 2121–Management of Client Care.....	1
RNSG 2263–Clinical Nursing Management of Client Care.....	2
**Humanities or Fine Arts.....	3

**10**

**Associate of Applied Science Degree Total**

**72**

## Verification of Workforce Competencies

Capstone Experience: **RNSG 2121, Comprehensive Exam**

External Learning Experience: **RNSG 2263,**

Credential Exam: **NCLEX–RN**

*\* Students must satisfactorily complete BIOL 2401 or BIOL 2402, BIOL 2420 or BIOL 2421, and ENGL 1301, and MATH 1314 or MATH 1333 prior to enrolling in any nursing course. Remedial courses (those courses which have numbers beginning with 0) do not apply toward the associate degree.*

*\*\*Courses which satisfy this requirement are listed in the Humanities and Visual /Performing Arts section of the Transfer Core Curriculum.*

**Note: Course outline is representative of fall entry only. Adjustments will be made for spring entry.**

## Associate Degree Nursing, Transition

### ADN - Transition to RN (LVN to RN) Associate of Applied Science Degree

#### Central Campus Only

Prerequisites	Credit
BIOL 2401–Human Anatomy and Physiology I.....	4
BIOL 2402–Human Anatomy and Physiology II.....	4
BIOL 2420–Microbiology and Pathology or BIOL 2421–Introductory Microbiology.....	4
*MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra.....	3
PSYC 2301–General Psychology.....	3
PSYC 2314–Life-span Growth and Development.....	3
ENGL 1301–Composition I.....	3
PHED Activity.....	1
**RNSG 1215 Health Assessment.....	2
	<b>27</b>

#### First Term

RNSG 1301–Pharmacology.....	3
RNSG 2207–Transition to Nursing Practice.....	2
RNSG 1166–Practicum Nursing Transition.....	1
RNSG 1343–Complex Concepts of Adult Health.....	3
RNSG 1262–Clinical Nursing Complex Concepts of Adult Health.....	2
	<b>11</b>

#### Second Term

RNSG 1251–Care of Childbearing Families.....	2
RNSG 1263–Clinical Nursing Care of Childbearing Families.....	2
RNSG 2231–Advanced Concepts of Adult Health.....	2
RNSG 2260–Clinical Nursing Concepts of Adult Health.....	2
ENGL 2311–Technical Report Writing.....	3

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## Post-Year 1

### Summer Session

RNSG 2201–Care of Children and Families.....	2
RNSG 2262–Clinical Nursing Care of Children and Families.....	2
	<b>4</b>

### Third Term

RNSG 2213–Mental Health Nursing.....	2
RNSG 2261–Clinical Nursing Mental Health Nursing.....	2
RNSG 2121–Management of Client Care.....	1
RNSG 2263–Clinical Nursing Management of Client Care.....	2
***Humanities or Fine Arts.....	3
PHED Activity.....	1
	<b>11</b>

### Associate of Applied Science Degree Total

**64**

### Verification of Workforce Competencies

Capstone Experience: **RNSG 2121, RNSG 2263,  
Comprehensive Exit Exam**

Credential Exam: **NCLEX–RN**

*\* Students must satisfactorily complete BIOL 2401 or BIOL 2402, BIOL 2420 or BIOL 2421, and ENGL 1301, and MATH 1314 or MATH 1333 prior to enrolling in any nursing course. Remedial courses (those courses which have numbers beginning with 0) do not apply toward the associate degree.*

*\*\*An applicant needs special permission from the department chair to take this course.*

*\*\*\*Courses which satisfy this requirement are listed in the Humanities and Visual /Performing Arts section of the Transfer Core Curriculum.*

**Note: The course outline is representative of fall entry only. Adjustments will be made for spring entry.**

**Note: The LVN applicant to the Transition to RN Program must have a current Texas License for Practice as a Vocational Nurse.**

### Paramedic to RN Speciality

### Associate of Applied Science Degree

#### Central Campus Only

Prerequisites	Credit
**RNSG 1413–Foundations for Nursing Practice.....	4
BIOL 2401–Human Anatomy and Physiology I.....	4
BIOL 2402–Human Anatomy and Physiology II.....	4
*MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra.....	3
PSYC 2301–General Psychology.....	3
PSYC 2314–Life-Span Growth and Development.....	3
*ENGL 1301–Composition I.....	3
PHED Activity.....	1
**RNSG 1215–Health Assessment.....	2
BIOL 2420–Microbiology and Pathology or BIOL 2421–Introductory Microbiology.....	4
	<b>31</b>

*\*\*Paramedic applicants only. Applicants need special permission from the department chair to take this course.*

# Technical Programs

## First Term

RNSG 1301–Pharmacology.....	3
RNSG 2207–Transition to Nursing Practice.....	2
RNSG 1166–Practicum Nursing Transition.....	1
RNSG 1343– Complex Concepts of Adult Health.....	3
RNSG 1262–Clinical Nursing Complex Concepts of Adult Health.....	2
	<u>11</u>

## Second Term

RNSG 1251–Care of Childbearing Families.....	2
RNSG 1263–Clinical Nursing Care of Childbearing Families.....	2
RNSG 2231–Advanced Concepts of Adult Health.....	2
RNSG 2260–Clinical Nursing Advanced Concepts of Adult Health.....	2
ENGL 2311–Technical Report Writing.....	3
	<u>11</u>

## Post-Year 1

### Summer Session

RNSG 2201–Care of Children and Families.....	2
RNSG 2262–Clinical Nursing Care of Children and Families.....	2
	<u>4</u>

## Third Term

RNSG 2213–Mental Health Nursing.....	2
RNSG 2261–Clinical Nursing Mental Health Nursing.....	2
RNSG 2121–Management of Client Care.....	1
RNSG 2263–Clinical Nursing Management of Client Care.....	2
****Humanities or Fine Arts.....	3
PHED Activity.....	1
	<u>11</u>

**Associate of Applied Science Degree Total** **68**

### Verification of Workforce Competencies

**Capstone Experience:** RNSG 2121, RNSG 2263, Comprehensive Exit Exam

**Credential Exam:** NCLEX–RN

*\*Students must satisfactorily complete BIOL 2401 or BIOL 2402, BIOL 2420 or BIOL 2421 and ENGL 1301, and MATH 1314 or MATH 1333 prior to enrolling in any nursing course. Students desiring to obtain a baccalaureate degree should take MATH 1314, College Algebra, Spring entry.*

*\*\*Paramedic applicants only. Applicant needs special permission from department chair to take this course.*

*\*\*\* Applicant needs special permission from the department chair to take this course.*

*\*\*\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*

**Note: The paramedic applicant must show proof of EMT/Paramedic Certification from the Texas Department of State Health Services.**

# Associate Degree Nursing, Mobility

## LVN/Paramedic to ADN Mobility

### Associate of Applied Science Degree

#### South Campus Only

The ADN Mobility Program is a career mobility opportunity designed for LVNs and paramedics who desire to continue their education while maintaining employment. It is a program specifically designed to meet the unique learning needs of the LVN and paramedic. The nursing program is offered as an afternoon/evening program that can be completed in three (3) terms. The ADN Mobility Program is approved by the Board of Nurse Examiners for the State of Texas and accredited by the National League of Nursing Accrediting Commission (NLNAC) (National League for Nursing Accrediting Commission, 61 Broadway–33rd floor, New York, NY 10006).

#### Program Admission Criteria

To be considered for acceptance into the ADN Program, students must meet the College’s general admission requirements, as well as the program admission criteria, and must be assessed for college readiness in the areas of reading, mathematics, and writing (See the Texas Success Initiative section of this catalog).

All prerequisite courses must be completed prior to applying to the ADN Program. Permission must be obtained from the department chair in order to enroll in RNSG 1140, RNSG 1301, RNSG 1215, and RNSG 1108. Applicants are encouraged to complete all other prerequisite courses prior to seeking enrollment in RNSG 1140, RNSG 1301, RNSG 1215, and RNSG 1108. (RNSG 1140 is required for all paramedics and may be required for some LVNs.)

A class is enrolled in January and August of each year. The application periods are September 1–October 15 for spring admission and April 20–May 20 for fall admission.

The following documentation must be submitted to the South Campus Nursing Department chair:

1. Current Texas license to practice–Licensed Vocational Nurses must have a current Texas license. Paramedics must be Texas certified.

2. Employment documentation. Applicants must submit documentation of employment in a clinical setting during the recent three-year period, including full-time employment with a minimum of 1000 hours during one calendar year.
3. Copies of all transcripts and transcript evaluations.
4. Current CPR card with Health Care Provider status. (LVN) or ACLS certified (paramedic).

In order for credit earned in a required biology course to be applicable to the ADN Mobility Program, credit must have been earned within the past five years and the grade earned must have been a C or above. Credit earned in a required biology course exceeds the five-year stipulation if the credit was earned five or more years prior to the first term in which the student enrolls in the program.

There are a limited number of student spaces; therefore, students are admitted on a competitive basis. Students who apply for admission to the Department of Nursing will be selected on the basis of grade point average. The student must maintain an overall grade point average of 2.25 or above and earn at least 24 credit hours at San Jacinto Community College District in order to graduate from the LVN/Paramedic–ADN Mobility program with an Associate of Applied Science in Nursing.

Applicants not eligible for entry are those who have received a grade of D or lower in more than one nursing or biology class—for example, applicants who have received two Ds in biology courses, two Ds in RNSG or NURS courses, or one D in biology and one D in RNSG or NURS courses.

<b>Prerequisites</b>	<b>Credit</b>
BIOL 2401–Human Anatomy and Physiology I.....	4
BIOL 2402–Human Anatomy and Physiology II.....	4
BIOL 2420–Microbiology and Pathology .....	4
MATH 1314–College Algebra or MATH 1333–Contemporary Mathematics for Technical Programs .....	3-4
PSYC 2301–General Psychology.....	3
PSYC 2314–Life-Span Growth and Development.....	3
PHED Activity.....	1
PHED Activity.....	1
Approved Elective.....	3-4
*RNSG 1108–Dosage Calculations for Nursing .....	1
*RNSG 1215–Health Assessment.....	2
*RNSG 1301–Pharmacology .....	3
*RNSG 1140–Nursing Skills for the Articulating Students.....	1

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## First Term

RNSG 1209–Introduction to Nursing.....	2
RNSG 1417–Concepts of Nursing Practice I for the Articulating Student.....	4
RNSG 1260–Clinical: Concepts of Nursing Practice for the Articulating Student.....	2
ENGL 1301–Composition I .....	3
	<b>11</b>

## Second Term

RNSG 1249–Concepts of Pediatric Nursing Practice for the Articulating Student.....	2
RNSG 1163–Clinical: Concepts of Pediatric Nursing Practice for the Articulating Student.....	1
RNSG 1270–Concepts of Maternity/Newborn Nursing and Women's Health for the Articulating Student .....	2
RNSG 2161–Clinical: Concepts of Maternal/Newborn Nursing and Women's Health for Articulating Students .....	1
ENGL 1302–Composition II or ENGL 2311–Technical Report Writing.....	3
	<b>9</b>

## Third Term

RNSG 2270–Concepts of Mental Health Nursing Practice for the Articulating Student .....	2
RNSG 2162–Clinical: Concepts of Mental Health Nursing Practice for the Articulating Student .....	1
RNSG 2271–Concepts of Advanced Nursing Practice and Management for the Articulating Student.....	2
RNSG 2163–Clinical: Concepts of Advanced Nursing Practice and Management for the Articulating Student.....	1
**Humanities/Fine Arts.....	3
	<b>9</b>

**Associate of Applied Science Degree Total** **61**  
**Capstone Experience: RNSG 2271 and 2163, Comprehensive Exit Exam**

**Credential Exam: NCLEX–RN**

## Approved Electives:

CHEM 1411 MATH 1342 HECO 1322 BIOL 2305

SPCH 1315 SPCH 1318

\* An applicant needs special permission from the department chair to take these courses. RNSG 1140 is required for all paramedics and may be required for some LVNs.

\*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core

## Vocational Nursing Program (VN) Certificate of Technology

### North and South Campuses

The Vocational Nursing curriculum includes a combination of class lectures, nursing skills training, and clinical experience in a variety of health care settings. The program is approved by the Texas Education Agency and the Board of Nurse Examiners for the State of Texas. Upon successful completion of the program, graduates may apply to take the State Board Examination. Those students who pass this examination are granted a license by the Board of Nurse Examiners for the State of Texas to practice as a licensed vocational nurse.

Applicants for the program must meet the requirements for general admission to the College and must also meet the following specific requirements:

1. Be a high school graduate or pass the GED test.
2. Pass the placement test with acceptable scores, and if required, complete needed remedial courses.
3. Have a GPA minimum of 2.25 on college-level coursework.
4. Pass a physical examination.
5. Effective January 1, 1996, a person who has been convicted of a felony that relates to the duties and responsibilities of a licensed vocational nurse may be disqualified from obtaining licensure as a licensed vocational nurse. (213.28 Board of Nurse Examiners for the State of Texas; Rules and Regulations, September 2004.) These issues are addressed directly to the Board of Nurse Examiners by the applicant.

Students who apply for admission and who meet the stated requirements will be selected for admission on the basis of placement test scores and grades on college-level coursework completed at San Jacinto Community College District or other accredited institutions of higher education. Applicants who are accepted for admission will be notified via mail. Applicants who are not selected for admission to the Vocational Nursing program for a given term must reapply for admission if they wish to be considered for admission during a subsequent term; applicants who are accepted for admission, but who do not enroll, must also reapply.

For detailed information concerning admission requirements, deadlines for submitting applications and related documents, and requirements for completing the program, contact the Department of Vocational Nursing.

The program is a full year of training, including 576 classroom and 880 laboratory/clinical hours. Students completing each of the courses specified in the program with grades of C or above are awarded a certificate of technology.

### First Term

### Credit

The prerequisite for enrolling in the first term is acceptance into the program.

VNSG 1116–Nutrition or HECO 1322–Principles of Nutrition.....	1-3
VNSG 1227–Essentials of Medication Administration.....	2
VNSG 1320–Anatomy and Physiology for Allied Health or BIOL 2401–Human Anatomy and Psychology I and BIOL 2402–Human Anatomy and Physiology II.....	3
VNSG 1323–Basic Nursing Skills.....	3
VNSG 2331–Advanced Nursing Skills.....	3
VNSG 1170–Clinical Prep.....	1
VNSG 1260–Clinical I.....	2

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### Second Term\*

VNSG 1262–Clinical III.....	2
VNSG 1301–Mental Health and Mental Illness.....	3
VNSG 1231–Pharmacology.....	2
VNSG 1329–Medical–Surgical Nursing I.....	3
VNSG 1361–Clinical II.....	3
VNSG 1226–Gerontology.....	2

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### Third Term\*

VNSG 1119–Professional Development.....	1
VNSG 1230–Maternal Neonatal Nursing.....	2
VNSG 1234–Pediatrics.....	2
VNSG 1332–Medical Surgical Nursing II.....	3
VNSG 2260–Clinical IV.....	2
VNSG 2261–Clinical V.....	2

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### Certificate of Technology Total

**42**

### Capstone Experience: VNSG 2260

\* The prerequisite for enrolling in the second and third terms is successful completion of each preceding term with a minimum grade of C in each course.

\*\*VNSG 1226 and VNSG 1262 will rotate second and third term.

## Occupational Health and Safety Technology

### Occupational Health and Safety Technology Associate of Applied Science Degree

#### Central Campus Only

Occupational Health and Safety Technology is a specialized branch of the health professions focusing on the environment of workers. Professionals in this field strive to find and eliminate conditions in the workplace that may result in occupational injury or disease. This is achieved through a process of anticipation, recognition, evaluation, and control of the various stresses that contribute to unsafe working environments.

The Occupational Health and Safety Technology Program is multi-disciplinary in nature, providing students with relevant exposure to biological, chemical, physical, mathematical and health sciences, as well as a thorough introduction to occupational health and safety concepts. Common occupational safety concerns deal with safety hazards involved with confined space entry, lockout, hazard communication, and compliance with safety standards, fire prevention, and other areas.

Occupational safety personnel are expected to perform the following functions:

1. Identify and analyze accident and loss producing conditions.
2. Develop accident prevention and loss control methods, procedures, and programs.
3. Communicate accidents and loss control data to individuals on a need-to-know basis.
4. Measure and evaluate the effectiveness of accident and loss control systems.

The curriculum is modeled from guidelines of the American Board of Industrial Hygiene (ABIH) and the Board of Certified Safety Professionals (BCSP). The ABIH and BCSP began a jointly sponsored certification program through The Council on Certification of CCHESST administers the testing and students who pass the certification examination, and pay the required fees, are authorized to use the title Occupational Health and Safety Technologist, and to use the initials OHST after their names and may complete curriculum at upper-level universities leading toward Certified Safety Professional and/or Certified Industrial Hygienist.

First Term	Credit
EPCT 1307—Introduction to Environmental, Safety and Health Technology .....	3
ENGL 1301—Composition I .....	3
*MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra .....	3
CHEM 1411—General Inorganic Chemistry I.....	4
PHED Activity .....	1
	<b>14</b>

Second Term	
EPCT 1341—Principles of Industrial Hygiene .....	3
OSHT 1309—Physical Hazards Control .....	3
OSHT 1313—Accident Prevention Inspection and Investigation.....	3
**CHEM 1412—General Inorganic Chemistry II or PHYS 1401—College Physics I or BIOL—Biological Science .....	4
BCIS 1305—Business Computer Applications or ITSC 1309—Integrated Software Applications I .....	3
	<b>16</b>

Third Term	
ENGL 2311—Technical Report Writing.....	3
OSHT 2401—OSHA Regulations .....	4
OSHT 2305—Ergonomics and Human Factors .....	3
EPCT 2333—Environmental Toxicology.....	3
PHED Activity .....	1
***Humanities or Fine Arts .....	3
	<b>17</b>

Fourth Term	
OSHT 2309—Safety Program Management.....	3
OSHT 1321—Fire Protection Systems.....	3
OSHT 1307—Construction Site Safety and Health.....	3
Speech .....	3
***Behavioral or Social Science.....	3
Approved Elective .....	3–6
	<b>18-21</b>
<b>Associate of Applied Science Degree Total</b>	<b>65-68</b>

**Capstone Experience: OSHT 2309**

**External Learning Experience: OSHT 2380**

\* Students desiring to obtain a baccalaureate degree should take MATH 1314—College Algebra.

\*\*Students desiring to obtain a baccalaureate degree should take CHEM 1412.

\*\*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

#### Approved Electives

(EMSP 1501 and EMSP 1160)	EPCT 1313	EPCT 1305
OSHT 1325	OSHT 2380	

# Technical Programs

## Occupational Health and Safety Technology Certificate of Technology

### Central Campus Only

First Term	Credit
EPCT 1307—Introduction to Environmental Safety and Health Technology .....	3
OSHT 1309—Physical Hazards Control .....	3
OSHT 1313—Accident Prevention, Inspection and Investigation .....	3
OSHT 1321—Fire Protection Systems.....	3
EPCT 1341—Principles of Industrial Hygiene.....	3
	<b>15</b>

Second Term	Credit
OSHT 1307—Construction Site Safety and Health.....	3
OSHT 2401—OSHA Regulations—General Industry.....	4
OSHT 2305—Ergonomics and Human Factors in Safety.....	3
OSHT 2309—Safety Program Management.....	3
EPCT 2333—Environmental Toxicology.....	3
Approved Electives .....	3-6
	<b>19-22</b>

**Certificate of Technology Total** **34-37**

**Capstone Experience: OSHT 2309**

**External Learning Experience: OSHT 2380**

Approved Electives		
(EMSP 1501 and EMSP 1160)	EPCT 1313	EPCT 1305
OSHT 1325	OSHT 2380	

## Paralegal

### Paralegal Associate of Applied Science Degree

#### North Campus Only

The Paralegal curriculum at San Jacinto Community College District is designed to provide students with the knowledge and skills required to work under the general direction of attorneys to assist them in the completion of legal tasks and is ABA approved. The program provides knowledge and skills for employment in law firms, courts, utility companies, title companies, trusts and mortgage departments of banks, government agencies, industrial companies and other legal departments. A paralegal may not provide legal services directly to the public unless specifically authorized by law.

First Term	Credit
ENGL 1301—Composition I .....	3
LGLA 1307—Introduction to Law and Legal Professions .....	3
LGLA 1303—Legal Research.....	3
LGLA 1345—Civil Litigation.....	3
LGLA 1317—Law Office Technology.....	3
	<b>15</b>

Second Term	Credit
ENGL 1302—Composition II .....	3
LGLA 2335—Advanced Civil Litigation.....	3
LGLA 1353—Wills, Trusts and Probate Administration.....	3
LGLA 1355—Family Law .....	3
MATH 1314—College Algebra or MATH 1333—Contemporary Mathematics for Technical Programs or Natural Science.....	3-4
PHED Activity .....	1
	<b>16-17</b>

First Summer Session	Credit
SPCH 1315—Public Speaking or SPCH 1318—Interpersonal Communication or SPCH 1321—Business and Professional Speech.....	3
	<b>3</b>

Third Term	Credit
LGLA 1351—Contracts.....	3
LGLA 1305—Legal Writing .....	3
LGLA 2303—Torts and Personal Injury Law .....	3
GOVT 2301—United States and Texas Politics and Constitutions .....	3
PHED Activity .....	1
*Humanities or Fine Arts .....	3
	<b>16</b>

Fourth Term	Credit
LGLA 2311—Business Organizations.....	3
LGLA 2309—Real Property.....	3
LGLA 1391—Special Topics in Legal Assistant.....	3
LGLA 2313—Criminal Law and Procedure.....	3
LGLA 2388—Internship—Paralegal/Legal Assistant.....	3
	<b>15</b>

**Associate of Applied Science Degree Total** **65**  
**External Learning Experience: LGLA 2388**

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.

## Pharmacy Technician

### Pharmacy Technician Certificate of Technology

#### North and South Campuses Only

The Pharmacy Technician Program is a nine-month certificate program designed to train applicants for employment in most pharmacy settings. Employment may be found in hospital pharmacies, retail pharmacies, and home infusion pharmacies.

#### Program Admission Criteria

To enter the program, applicants must have a high school diploma, GED, or ATB; demonstrate proficiency in English and math; make application to the College; complete testing requirements; interview with the program coordinator; be accepted into the program; and attend a formal orientation program.

Applicants are exempt from THEA testing. Testing requirements include the ASSET placement test. Applicants who have successfully completed all parts of the THEA are exempt from the ASSET; however, THEA scores must be on file in the Office of Enrollment Services.

Minimum ASSET scores are:	Skill Level
English—must score into ENGL 0307 or higher .....	6
Reading—must score into READ 0310 or higher .....	6
Math—must score into MATH 0305 or higher .....	6

Applicants must be at the level equivalent to the minimum ASSET scores listed above to qualify for admission into the program. It is important for applicants to know that if they enroll in general academic course work after completing the Pharmacy Technician Program (or during their enrollment in the Pharmacy Technician Program), the THEA Test will be required to continue their education at San Jacinto Community College District. Applicants whose native language is not English must show English proficiency as required by the San Jacinto Community College District Office of Enrollment Services.

The Fall application period is March 1 through April 30 and the Spring application period is September 1 through October 31.

Spring entrance requires students to attend classes through Summer Mini, Summer I and II sessions. Please see the program director about the evening and on-line programs available.

Students accepted into the program attend classes on campus during the first and second terms. During each of these terms, students spend a portion of the term as interns in clinical education facilities (hospital, retail and home infusion pharmacies). The job skills and subjects that are taught include pharmaceutical calculations, state and federal laws, IV admixture, prepackaging, inventory, hospital unit dose, retail pharmacy, medical terminology, pharmacology, computer applications and the practice of pharmacy. Internships are scheduled according to the hours of the site and may vary among day, evening and night shifts. Students are responsible for their own transportation to and from internship sites and automobile/health insurance.

Graduates receive a certificate of completion accredited by the American Society of Health-System Pharmacists (ASHP), which enables the technicians to prepare sterile products in any pharmacy setting and prepares them to sit for the national Pharmacy Technician Certification Exam.

The following documents must be in the applicant's file by the application deadline:

1. Official high school transcripts or equivalent
2. Placement test scores
3. Transcript(s) of course work done at other colleges/universities
4. Any foreign transcripts (HS and/or college) that have been evaluated by a San Jacinto Community College District-approved evaluation service.

Computer proficiency is recommended for the certificate program. Students who do not have computer proficiency are encouraged to take BCIS 1305 or ITSC 1309.

It is recommended that dual credit students attending the pharmacy technician program on the North Campus enroll in PHRA 1375, Pharmacy Terminology.

First Term	Credit
PHRA 1301—Introduction to Pharmacy.....	3
PHRA 1305—Drug Classification I .....	3
PHRA 1309—Pharmaceutical Mathematics I .....	3
PHRA 1313—Community Pharmacy Practice.....	3
PHRA 1360—Clinical—Pharmacy Technician (Community).....	3
	<b>15</b>
Second Term	
PHRA 1372—Drug Classification II .....	3
PHRA 1347—Pharmaceutical Mathematics II .....	3
PHRA 1345—Intravenous Admixture and Sterile Compounding.....	3
PHRA 1349—Institutional Pharmacy Practice .....	3
PHRA 2360—Clinical—Institutional Pharmacy.....	3
	<b>15</b>
<b>Certificate of Technology Total</b>	<b>30</b>
<b>Capstone Experience: PHRA 2260</b>	

## Physical Therapist Assistant

### Physical Therapist Assistant Associate of Applied Science Degree

#### South Campus Only

Physical therapist assistants work under the supervision of physical therapists in a variety of settings. Opportunities include, but are not limited to, out-patient clinics, hospitals, long-term care facilities, pediatric centers, schools and home health agencies. Physical therapist assistants provide services for patients which help decrease pain, improve mobility, restore function and minimize disabilities.

The Physical Therapist Assistant Program at San Jacinto South is a nationally-accredited program under the guidelines of The Commission on Accreditation in Physical Therapy Education. The program is a total of 72 credit hours, and the student is awarded an A.A.S. degree upon completion of the program. After graduation, the student then applies to take The National Physical Therapist Assistant Examination (NPTE-PTA). A physical therapist assistant must pass the licensure exam to practice as a physical therapist assistant in most states including the state of Texas.

Prior to entering the Physical Therapist Assistant Program, students may take any of the general liberal arts courses required. Liberal arts courses not taken prior to entering must be taken concurrent with the Physical Therapist Assistant curriculum plan.

Physical Therapist Assistant students must earn a grade of C or above in the Physical Therapist Assistant (PTHA) and biology courses. Additionally, the student must maintain an overall grade point average of at least 2.0 in order to graduate from the Physical Therapist Assistant Program.

#### Admission Requirements

Applicants must meet the College's general admission requirements. Acceptance into the Physical Therapist Assistant program is competitive. Students must complete the pre-requisite courses with a minimum 2.75 GPA, complete the application form, complete 40 hours of observation in physical therapy (form available from PTA department), and have three letters of recommendation (form available from PTA department). The observation hours must be obtained from at least two of the following areas: out patient, in-patient, rehabilitation, acute care hospital, pediatrics or home health. Acute care setting is strongly recommended as one of the options. The student must also have three letters of recommendation and it is strongly suggested that one of

the letters be from a physical therapist. Students must also pass a background check and have proof of immunizations. The top qualified students will be interviewed.

Applications for students not selected into the program will be held as inactive for two (2) years. If a student wishes to re-apply during those two years, a letter must be sent or emailed to the PTA department requesting that their file be reactivated.

#### Steps to complete admission:

1. Apply for admission into San Jacinto Community College District. Send official transcripts from colleges/universities other than San Jacinto to the Office of Enrollment Services at San Jacinto South. Ask for a transcript evaluation. Send all non-official transcripts to the PTA department
2. Fill out PTA program application and return it to the PTA department from January 1 through April 30.
3. Complete prerequisite classes by the end of Summer Mini.
4. Have documentation of observation hours turned in no later than the end of Summer Mini.
5. Have recommendation letters turned in no later than the end of Summer Mini.

#### Cost:

The cost of the PTA program is the same as for any student at San Jacinto Community College District with the addition of:

- \$75.00 for lab fees/insurance
- \$52.00 for a background check
- \$25.00 CPR certification prior to internships
- \$10.00 name tag

#### Note:

- Uniforms may need to be purchased for some clinical rotations.
- Students will also incur additional travel expenses for clinical rotations
- Students will be responsible for their own immunizations.

Prerequisite Term	Credit
ENGL 1301—Composition I .....	3
MATH 1314—College Algebra or MATH 1333—Contemporary Mathematics for Technical Programs .....	3
PSYC 2301—General Psychology .....	3
BIOL 2401—Human Anatomy and Physiology I .....	4
PTHA 1201—The Profession of Physical Therapy.....	<u>2</u>
	<b>15</b>

## First Term

PHED 1123–Weight Training .....	1
PTHA 1413–Functional Anatomy .....	4
BIOL 2402–Human Anatomy and Physiology II .....	4
PTHA 1305–Basic Patient Care Skills .....	3
	<b>12</b>

## Second Term

PTHA 1431–Physical Agents .....	4
PTHA 2409–Therapeutic Exercise .....	4
ENGL 1302–Composition II or ENGL 2311–Technical Report Writing.....	3
PSYC 2314–Life Span Growth and Development.....	3
PHED Activity .....	1
	<b>15</b>

## Summer Session

PTHA 1360–Clinical I–PTA .....	3
PTHA 1321–Clinical Pathophysiology .....	3
	<b>6</b>

## Third Term

PTHA 2431–Management of Neurological Disorders .....	4
PTHA 2435–Rehabilitation Techniques .....	4
PTHA 2239–Professional Issues.....	2
SPCH 1318–Interpersonal Communications.....	3
	<b>13</b>

## Fourth Term

PTHA 2460–Clinical II–PTA.....	4
PTHA 2461–Clinical III–PTA.....	4
*Humanities or Fine Arts .....	3
	<b>11</b>

## Associate of Applied Science Degree Total

**Capstone Experience: PTHA 2461** **72**

Approved Electives: ENGL 1301, MATH 1333

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*

# Pipefitting Technology

## Pipefitting Technology

### Continuing Education Certificate

#### Central and North Campuses

	<b>Contact Hours</b>
PFPB 1007–Introduction to Pipefitting.....	128
PFPB 1043–Pipefitting Fabrication and Blueprint Reading.....	128

PFPB 2032–Pipefitting Fabrication and Blueprint Reading.....	128
PFPB 2033–Pipefitting, Advanced Fabrication and Installation.....	128

**Certificate of Technology Total** **512**

**Capstone Experience: PFPB 2033**

# Plumbing and Pipefitting

## Plumbing and Pipefitting Technology Continuing Education Certificate

#### North Campus

	<b>Contact hours</b>
PFPB 1003–Basic Plumbing Skills (Plumbing I) .....	72
PFPB 1001–Basic Pipefitting: Installation and Rigging (Plumbing IIA).....	72
PFPB 1071–Plumbing Standards for Water Supplies (Plumbing IIB).....	72
PFPB 2033–Pipefitting: Advanced Fabrication and Installation (Plumbing IIIA).....	72
PFPB 2071–Installation and Repair of Potable Water Systems (Plumbing IIIB).....	72
PFPB 2032–Pipefitting Standards, Specifications, and Installation (Plumbing IVA).....	72
PFPB 2031–Advanced Technologies and Specialized Applications for Piping Trades (Plumbing IVB) .....	72
<b>Certificate of Technology Total</b>	<b>504</b>

**Capstone Experience: PFPB 2031**

# Process Technology

## Process Technology

### Associate of Applied Science Degree

#### Central Campus Only

This Process Technology Department is a direct link to the largest industry in the greater Houston area, and the Texas Gulf Coast region. In the past very little formal training was required prior to taking a job in the chemical process industry. However, companies in the Houston area now require more education for their entry-level technicians and are looking to community college graduates to meet those needs.

Students train in state-of-the-art process laboratory facilities similar to area refining and chemical plant environments. The College facility was built in cooperation with area petrochemical companies. San Jacinto Community College District works closely with industry as a member of the Gulf Coast Process Technology Alliance to maintain a curricula reflecting current technology standards.

Completion of the Process Technology curriculum can provide students with the technical skills required for entry-level positions as process technicians in petrochemical and related industries.

A certificate in Process Technology is still accepted by most of industry, however, several industries have indicated they will hire only graduates with the associate of applied science degree. Future trends indicate that most of the petrochemical industry technicians will be required to have an A.A.S. degree. Students who earn qualifications to be in the Chemical Lab Technician Specialty A.A.S. Degree Program have the advantage of earning qualifications for being hired into either the operations division or laboratory department of a process plant.

First Term	Credit
PTAC 1302—Introduction to Process Technology .....	3
PTAC 1308—Safety, Health, and Environment I.....	3
ITSC 1309—Integrated Software Applications I or BCIS 1305—Business Computer Applications .....	3
MATH 1333—Contemporary Mathematics for Technical Programs .....	3
SPCH 1318—Interpersonal Communications or SPCH 1321—Business and Professional Speech .....	3
PHED Activity .....	1
	<u>16</u>
Second Term	
PTAC 1410—Process Technology I—Equipment.....	4
PTAC 1332—Process Instrumentation I .....	3
SCIT 1414—Applied General Chemistry.....	4
ENGL 1301—Composition I .....	3
ELPT 1311—Basic Electricity Theory .....	3
PHED Activity .....	1
	<u>18</u>
Third Term	
PTAC 2420—Process Technology II—Systems .....	4
PTAC 2314—Quality .....	3
PTAC 2336—Process Instrumentation II.....	3
CTEC 1401—Applied Petrochemical Technology.....	4
ENGL 2311—Technical Report Writing or ENGL 1302—Composition II .....	3
	<u>17</u>

Fourth Term	
PTAC 2438—Process Technology III—Operations .....	4
PTAC 2446—Process Troubleshooting .....	4
CTEC 2380—Internship Chemical Technology/Technician or PTAC 1350—Industrial Economics or PTAC 2348—Safety, Health and Environment II or PTRT 1301—Overview of Petroleum Industry or PTRT 1418—Natural Gas Production .....	3-4
*Humanities or Fine Arts .....	3
*Behavioral or Social Science .....	3
	<u>17-18</u>
<b>Associate of Applied Science Degree Total</b>	<b>68-69</b>
<b>Capstone Experience: PTAC 2438</b>	

*\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

### Approved Electives

HRPO 1311	PTAC 1350	PTAC 2348	PTRT 1301
PTRT 1418			

## Process Technology Certificate of Technology

### Central Campus Only

First Term	Credit
PTAC 1302—Introduction to Process Technology .....	3
PTAC 1308—Safety, Health, and Environment I.....	3
PTAC 1410—Process Technology I—Equipment.....	4
SCIT 1414—Applied General Chemistry I.....	4
PTAC 2314—Quality .....	3
	<u>17</u>
Second Term	
CTEC 1401—Applied Petrochemical Technology.....	4
PTAC 1332—Process Instrumentation I .....	3
PTAC 2420—Process Technology II—Systems .....	4
PTAC 2438—Process Technology III—Operations .....	4
PTAC 2446—Process Troubleshooting .....	4
	<u>19</u>
<b>Certificate of Technology Total</b>	<b>36</b>
<b>Capstone Experience: PTAC 2438</b>	

## Chemical Lab Technician Specialty

### Chemical Lab Technician Specialty Associate of Applied Science Degree

#### Central Campus Only

First Term	Credit
PTAC 1302—Introduction to Process Technology .....	3
PTAC 1308—Safety Health and Environment I .....	3
OSHT 1309—Physical Hazards Control .....	3
CHEM 1411—General Inorganic Chemistry I.....	4
MATH 1333—Contemporary Mathematics for Technical Programs .....	3
	<b>16</b>

Second Term	Credit
CHEM 1412—General Inorganic Chemistry II.....	4
PTAC 1410—Process Technology I—Equipment.....	4
ITSC 1309—Integrated Software Applications I or BCIS 1305—Business Computer Applications .....	3
*Humanities or Fine Arts .....	3
PTAC 1332—Process Instrumentation I .....	3
PHED Activity .....	1
	<b>18</b>

Third Term	Credit
PTAC 2420—Process Technology II—Systems .....	4
CHEM 2423—Organic Chemistry I.....	4
ENGL 1301—Composition I .....	3
PTAC 2314—Principles of Quality .....	3
*Behavioral or Social Science .....	3
PHED Activity .....	1
	<b>18</b>

Fourth Term	Credit
CTEC 2386—Internship—Chemical Technology/Technician or HRPO 1311—Human Relations or PTRT 1301—Overview of Petroleum Industry or BMGT 1301—Supervision .....	3
PTAC 2438—Process Technology III—Operations .....	4
CHEM 2425—Organic Chemistry II.....	4
ENGL 2311—Technical Report Writing or ENGL 1302—Composition II .....	3
SPCH 1318—Interpersonal Communications or SPCH 1321—Business and Professional Speech .....	3
	<b>17</b>
<b>Associate of Applied Science Degree Total</b>	<b>69</b>

Capstone Experience: PTAC 2438

#### Approved Electives

BMGT 1301      HRPO 1311      PTRT 1301

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

## Real Estate

### Real Estate Associate of Applied Science Degree

#### All Campuses

This two-year program leading to an associate of applied science degree is for students who want to earn a two-year degree while preparing for jobs in real estate and for sales or broker licensure. Students pursuing a bachelor's degree should see a counselor or the associate dean prior to registration.

First Term	Credit
RELE 1201—Principles of Real Estate I.....	2
RELE 1238—Principles of Real Estate II.....	2
RELE 2301—Law of Agency .....	3
RELE 1311—Law of Contracts.....	3
RELE 1319—Real Estate Finance .....	3
RELE 1325—Real Estate Mathematics .....	3
	<b>16</b>

Second Term	Credit
BCIS 1305—Business Computer Applications or ITSC 1309—Integrated Software Applications I .....	3
BUSI 1311—Salesmanship.....	3
RELE 1303—Real Estate Appraisal .....	3
RELE 1321—Real Estate Marketing.....	3
RELE 2366—Practicum—Real Estate.....	3
PHED Activity .....	1
	<b>16</b>

Third Term	Credit
BUSI 2301—Business Law I or RELE 1309—Real Estate Law.....	3
ENGL 1301—Composition I .....	3
HRPO 1311—Human Relations or BMGT 1301—Supervision.....	3
RELE 1307—Real Estate Investment .....	3
SPCH 1315—Public Speaking or SPCH 1321—Business and Professional Speech.....	3
PHED Activity .....	1
	<b>16</b>

# Technical Programs

## Fourth Term

ACNT 1303—Introduction to Accounting I or ACCT 2301—Accounting Principles I.....	3
*Behavioral or Social Science .....	3
ENGL 1302 English Composition II or ENGL 2311—Technical Report Writing.....	3
RELE 2367—Practicum—Real Estate.....	3
MATH 1333—Contemporary Mathematics for Technical Programs or MATH 1314—College Algebra .....	3
*Humanities or Fine Arts .....	3
	<b>18</b>
<b>Associate of Applied Science Degree Total</b>	<b>66</b>

**Capstone Experience: RELE 2367**

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

## Real Estate

### Certificate of Technology

#### All Campuses

The certificate of technology builds on the occupational certificate by including courses that provide for the annual renewal of the salesperson's license and better equip the student to be successful in the highly competitive field of real estate. All courses required for this certificate also apply toward the associate of applied science degree.

First Term	Credit
RELE 1201—Principles of Real Estate I.....	2
RELE 1238—Principles of Real Estate II.....	2
RELE 1311—Law of Contracts.....	3
RELE 1319—Real Estate Finance .....	3
RELE 1325—Real Estate Mathematics .....	3
RELE 2301—Law of Agency .....	3
	<b>16</b>

#### Second Term

BCIS 1305—Business Computer Applications or ITSC 1309—Integrated Software Application I.....	3
BUSI 1311—Salesmanship.....	3
RELE 1303—Real Estate Appraisal or RELE 1307—Real Estate Investments or RELE 1309—Real Estate Law.....	3
RELE 1321—Real Estate Marketing.....	3
RELE 2366—Practicum—Real Estate or RELE 2367—Practicum—Real Estate .....	3
Approved Elective .....	3
	<b>15</b>

**Certificate of Technology Total** **31**

**Capstone Experience: RELE 2366 or RELE 2367**

Approved Electives  
RELE 1303      RELE 1307      RELE 1309

## Real Estate

### Occupational Certificate

#### All Campuses

This certificate is designed to enable students to gain the knowledge and credentials necessary to take the salesperson's licensure examination. All the courses required for this certificate also apply toward the certificate of technology and the associate of applied science degree.

	Credit
RELE 1201—Principles of Real Estate I.....	2
RELE 1238—Principles of Real Estate II.....	2
RELE 2301—Law of Agency .....	3
RELE 1311—Law of Contracts.....	3
RELE 1319—Real Estate Finance .....	3
RELE 1325—Real Estate Mathematics .....	3
<b>Occupational Certificate Total</b>	<b>16</b>
<b>Capstone Experience: RELE 1311</b>	

## Real Estate Assistant

### Marketable Skills Achievement

#### All Campuses

First Term	Credit
RELE 1201—Principles of Real Estate I.....	2
RELE 1238—Principles of Real Estate II.....	2
RELE 2301—Law of Agency .....	3
RELE 1311—Law of Contracts.....	3
BCIS 1305—Business Computer Applications.....	3
<b>Marketable Skills Achievement Total</b>	<b>13</b>
<b>Capstone Experience: RELE 1311</b>	

Sales Requirements (after Sept. 1, 1994; amended Jan. 1, 2002; amended January 1, 2006): 14 semester hours.

A minimum of 10 semester hours (150 classroom hours) must be completed in specific core real estate courses. These core courses must be Principles of Real Estate I and II, Law of Agency, and Law of Contracts.

The remaining two semester hours shall be completed in core real estate or related courses.

Educational Requirements for Texas Real Estate Licensure: Requirements for licensure are subject to change by the Texas Real Estate Commission. Three semester credit hours are the equivalent of 45 contact or classroom hours.

A real estate salesperson is required to complete a total of 18 semester (270 classroom) hours of education, at least 14 semester (210 classroom) hours of which must be core courses, by the end of their third year of licensure. This education is referred to as Salesperson Annual Education (SAE), as it is required annually with the Salesperson renewal. Each salesperson must file two semester (30 classroom) credit hours of course work as a condition of each annual renewal. Note that the hours for the SAE may be completed at any time. However, the hours must be submitted and on the TREC System within the renewal intervals given below: "Of the 120 hours necessary for licensure, 60 hours must be in Principles of Real Estate and 30 hours each in Law of Agency and Law of Contracts. Core courses may not be repeated within a three-year time frame. Note: Should the hours be completed PRIOR to the third renewal, the licensee will have satisfied the SAE requirements.

**Note:** For Salesperson Applicants Applying After January 1, 2006

A Salesperson is required to complete a total of 18 semester (270 classroom) hours of education, at least 14 semester (210 classroom) hours of which must be core courses, by the end of their first year of licensure. The Salesperson must file four semester (60 classroom) hours as a condition of the first renewal. Note that the hours for the SAE must be submitted and on the TREC system by the end of the first year of licensure.\*Of the 150 hours, 60 hours must be in Principles of Real Estate and 30 hours each in Law of Agency and Law of Contracts. The remaining 30 hours may be in any other core real estate course. Core courses may not be repeated within a three-year time frame. Note: Should the hours be completed PRIOR to the first renewal, the licensee will have satisfied the SAE requirements.

Once the SAE requirements have been satisfied, the Salesperson is required to complete Mandatory Continuing Education (MCE) for each renewal period.

1. 30 classroom (two term) hours in core real estate by the first annual license renewal time;
2. 30 additional classroom (two term) hours in core real estate by the second annual license renewal time;
3. 30 additional classroom (two term) hours in core real estate by the third annual license renewal time, for a total of 270 classroom (18 semester) hours of which at least 180 classroom (12 semester) hours must be in core real estate courses.

Courses acceptable toward sales educational requirements are also acceptable for broker educational requirements.

To be licensed as a broker under the educational requirements after Jan. 1, 2002, 18 semester hours (270 classroom hours) of the 60 semester hours (900 classroom hours) must be in core real estate courses.

Also, at least two years active experience in Texas as a licensed real estate salesperson are required during the 36-month period immediately preceding the filing of the application.

For further information write or call: The Texas Real Estate Commission, P.O. Box 12188, Capitol Station, Austin, TX 78711; 512.465.3940, or 800.250.8732.

#### Core Real Estate Courses:

RELE 1201	RELE 1303	RELE 1307	RELE 1309
RELE 1311	RELE 1319	RELE 1321	RELE 1325
RELE 2301	RELE 2209		

#### Related Courses Acceptable Toward Sales or Broker Licensure Only (Subject to change by TREC):

ACNT 1303	ACNT 1304	ACCT 2301	ACCT 2302
ACNT 2303	ACNT 2304	AIRC 1401	AIRC 1411
BMGT 1301	BUSG 2309	BUSG 2317	BUSI 1301
BUSI 1304	BUSI 1311	BUSI 2301	BUSI 2304
CONT 1314	CONT 1415	CONT 1511	CONT 1512
CONT 1514	CONT 2311	CONT 2313	CONT 2413
CONT 2511	DFTG 2428	DFTG 1417	DFTG 2444
ECON 2301	ECON 3202	ELPT 1311	ELPT 1325
ELPT 2325	ELPT 1351	ELPT 2305	ELPT 1429
ENGL 0306	ENGL 1111	ENGL 1301	ENGL 1302
ENGL 1303	ENGL 1304	ENGL 2311	GOVT 2302
HRPO 1311	INTD 1416	ITSC 1301	MATH 0304
MATH 0305	MATH 0306	MATH 1314	MATH 1332
MATH 1335	MATH 1336	PSYC 2301	PSYC 2316
SPCH 1318	SPCH 1321	MATH 1333	

#### Related Courses Acceptable Toward Broker Licensure Only (Subject to change by TREC):

ACNT 2309	ACNT 1321	ACNT 1329	ACNT 1311
ANTH 2351	ARTS 2351	ARTS 2352	ARTS 2373
ARTS 2374	BMGT 1301	BMGT 1331	BMGT 2368
COMM 1307	COMM 2311	COMM 2315	COMM 2327
CONT 2314	CONT 2412	CONT 2513	CONT 2514
CONT 2515	CONT 2516	CONT 2517	CONT 2518
COSC 1318	COSC 2318	COSC 2325	COSC 2370

## Technical Programs

DFTG 1417	DFTG 1448	DFTG 2428	DFTG 2410
DFTG 2416	EDTC 1341	ELPT 2337	ELPT 2343
ENGR 2304	HIST 1301	HIST 1302	HIST 2301
INTD 2416	ITNW 1392	ITNW 2305	ITNW 2331
ITNW 2347	ITSC 1391	ITSE 2335	ITSE 1305
ITSE 1307	ITSE 1309	ITSE 1310	ITSE 1318
ITSE 1329	ITSE 1331	ITSE 1391	ITSE 2349
ITSW 2334	ITSW 2336	ITSW 2337	MATH 1316
MATH 1324	MATH 1325	MATH 1342	MATH 2312
MATH 2315	MATH 2318	MATH 2320	MATH 2413
MATH 2414	MRKG 1311	PHIL 2303	POFI 1301
POFI 1325	POFI 1341	POFI 1349	POFI 2301
POFL 1305	POFM 1313	POFT 1309	POFT 1319
POFT 1325	POFT 1329	POFT 2301	PSYC 2317
RELE 2367	SOCI 1301	SOCI 1306	SPAN 1412
SPAN 2311	SPAN 2312		

## Respiratory Care

### Central Campus Only

*\*A criminal background check and/or drug screening is required for all Health Science students attending clinical courses, or practicum/ and may be required prior to admission to the program.*

The Department of Respiratory Care offers an Associate of Applied Science Degree Program. Graduates are qualified to apply to take the examination for entry-level Certified Respiratory Therapist as well as the advanced Registered Respiratory Therapist examination administered by the National Board for Respiratory Care.

Due to the limited number of clinical spaces, students are admitted on a competitive basis. All candidates must be counseled by the Department of Respiratory Care at San Jacinto Community College District. Applications for admission to the fall term classes are processed beginning in January.

Respiratory Care students must earn a grade of C or above in all Respiratory Care (RSPT) courses, science and mathematics courses, and must maintain an overall grade point average of at least 2.0 in order to graduate from the Respiratory Care Program. If the student earns a grade of D, W or F in a respiratory care course, the student will be required to repeat the course in which the unsatisfactory grade was earned and pass that course with a grade of C or better in order to progress in the program. Students repeating RSPT courses must be counseled by the Department of Respiratory Care department chair prior to registration.

All respiratory care (RSPT) courses are taught only once per academic year.

All students should take the required academic foundation courses in sequence along with professional coursework.

### Philosophy

The philosophy of the Department of Respiratory Care adheres to the philosophy of San Jacinto Community College District. Respiratory care is the allied health discipline which provides care through the use of diagnostic testing to patients with abnormalities of the cardiorespiratory systems. Respiratory therapists practice their specialty under the direction of licensed physicians and perform their duties in a variety of settings, including intensive care units, neonatal/pediatric special care units, general hospital wards, emergency/trauma units, extended care facilities and the home.

Due to the nature of the services provided, respiratory therapists must be able to apply knowledge gained through academic education to clinical problems and rationally care for the patient. Graduates of the programs offered by the Department of Respiratory Care are prepared as contributing members of the health care team.

### Objectives

Upon completion of the program offered by the Department of Respiratory Care, the student should be able to:

1. Utilize patient care processes and scientific principles to provide respiratory care to patients in health care facilities.
2. Participate as a contributing member of the health care team.
3. Assume personal responsibility for continued learning in order to maintain professional competency and promote the advancement of the field of respiratory therapy.
4. Successfully complete the credentialing examinations administered by the National Board for Respiratory Care.

### Program Admission Criteria

Students who apply for admission to the Department of Respiratory Care will be selected on the basis of their highest ACT/SAT test scores or their highest grade point average at San Jacinto Community College District, dependent upon the option under which they apply (Option A or Option B following).

Option A: SAT score of 680 or above on test taken prior to April 1995 or a score of 810 or above on SAT taken on or after April 1, 1995; or ACT composite score of 18 or above (ACT composite score of 15 or above if taken before October 1989)

Option B: Applicants must complete at San Jacinto Community College District 10 semester hours as specified below with at least a B average in the three courses and no grade lower than C.

- BIOL 2401 or BIOL 2402, and
- ENGL 1301 or ENGL 1302, and
- MATH 1314 or MATH 1333

Applicants seeking admission by Option B may petition to take a more advanced biology, mathematics, or English course if they have completed the above stated courses with a grade of C or above at another accredited institution.

Students must apply for admission to the Department of Respiratory Care by submitting a formal application and all required official documents to the Office of Enrollment Services.

Applicants to the Department of Respiratory Care will be notified by mail regarding their program admission status. Applicants who are not selected for admission to the Respiratory Care Program must reapply. Applicants who are accepted for admission into the Department of Respiratory Care, but who do not enroll, must also reapply at a later date.

Applicants must meet the College's general admission requirements as well as the program admission criteria. After acceptance into the program, an applicant must have a physical examination by a licensed physician (M.D., D.O.) and an orientation with a member of the Department of Respiratory Care. Students are required to purchase uniforms and accessories.

A student currently on academic probation is ineligible to enroll in the Respiratory Care Program.

## Respiratory Care Associate of Applied Science Degree

### Central Campus Only

#### Pre-Year 1

#### Summer Session

#### Credit

BIOL 2401–Human Anatomy and Physiology I or .....	4
*MATH 1333–Contemporary Mathematics for Technical Programs .....	3
ENGL 1301–Composition I .....	3
	<b>10</b>

#### First Term

HPRS 1106–Medical Terminology Essentials .....	1
RSPT 1325–Respiratory Care Sciences .....	3
RSPT 1340–Advanced Cardiopulmonary Anatomy and Physiology .....	3

RSPT 1429–Respiratory Care Fundamentals 1 .....	4
BIOL 2402–Human Anatomy and Physiology II .....	4
PHED Activity .....	1
	<b>16</b>

#### Second Term

RSPT 1267–Respiratory Care Practicum I .....	2
RSPT 2310–Cardiopulmonary Disease .....	3
RSPT 2317–Respiratory Care Pharmacology .....	3
RSPT 1431–Respiratory Care Fundamentals II .....	4
	<b>12</b>

#### Post-Year 1

#### Summer Session

RSPT 2355–Critical Care Monitoring .....	3
RSPT 2167–Respiratory Care Practicum II .....	1
RSPT 2314–Mechanical Ventilation .....	3
	<b>7</b>

#### Third Term

RSPT 2266–Respiratory Care Practicum III .....	2
RSPT 2353–Neonatal/Pediatric Cardiopulmonary Care .....	3
ENGL 2311–Technical Report Writing or ENGL 1302–Composition II .....	3
BIOL 2420–Microbiology and Pathology .....	4
PHED Activity .....	1
	<b>13</b>

#### Fourth Term

RSPT 2267–Respiratory Care Practicum IV .....	2
RSPT 2258–Advanced Respiratory Care Patient Assessment .....	2
RSPT 2130–Examination Preparation .....	1
PSYC 2301–General Psychology .....	3
Speech .....	3
**Humanities or Fine Arts .....	3
	<b>14</b>

#### Associate of Applied Science Degree Total

**72**

#### Capstone Experience: RSPT 2258

**Note: Students must take BIOL 2401 or BIOL 2402, ENGL 1301, and MATH 1313 prior to enrolling in any respiratory care course.**

\* Students desiring to obtain a baccalaureate degree should take MATH 1314–College Algebra.

\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.

For further information concerning respiratory care accreditation write or call: CoARC, 1248 Harwood Rd., Bedford, Texas 76021-4244, 817.283.2835 or visit <http://www.coarc.com/>.

# Technical Programs

## Restaurant Management

### Restaurant Management Associate of Applied Science Degree

#### Central Campus Only

The Restaurant Management Program provides training that will qualify graduates for supervisory positions in commercial food service. Courses are structured to cover the various operations of restaurants, hotel food service, cafeterias, coffee shops, catering and other areas of food service specialty.

First Term	Credit
CHEF 1305—Sanitation and Safety.....	3
RSTO 1325—Purchasing for Hospitality Operations.....	3
CHEF 1313—Food Service Operation/Systems.....	3
CHEF 1401—Basic Food Preparation.....	4
IFWA 1318—Nutrition for the Food Service Professional or Professional or	
HECO 1322—Principles of Nutrition.....	3
PHED Activity.....	1
	<b>17</b>
<b>Second Term</b>	
RSTO 1313—Hospitality Supervision.....	3
RSTO 2405—Management of Food Production and Service.....	4
Approved Elective.....	4
*MATH 1333—Contemporary Mathematics for Technical Programs.....	3
PHED Activity.....	1
	<b>15</b>
<b>Third Term</b>	
RSTO 1301—Beverage Management.....	3
RSTO 2301—Principles of Food and Beverage Controls.....	3
ACCT 2301—Accounting Principles I.....	3
ENGL 1301—Composition I.....	3
Approved Elective.....	3
	<b>15</b>
<b>Fourth Term</b>	
**Behavioral or Social Science.....	3
Speech.....	3
**Humanities or Fine Arts.....	3
Approved Elective.....	4
RSTO 2365—Practicum—Food and Beverage/ Restaurant Operations Manager.....	3
	<b>16</b>
<b>Associate of Applied Science Degree Total</b>	<b>63</b>

**Capstone Experience: CHEF 2365 or RSTO 2365**

\* Remedial courses (those courses which have numbers beginning with 0) do not apply toward the associate degree.

\*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.

#### Approved Electives

CHEF 1345	CHEF 2365	CHEF 2402	IFWA 1305
IFWA 2441	PSTR 1401	PSTR 2431	

### Restaurant Management Associate of Applied Science Degree

#### Central Campus Only

First Term	Credit
CHEF 1305—Sanitation Safety.....	3
RSTO 1325—Purchasing for Hospitality Operations.....	3
CHEF 1313—Food Service Operation/Systems.....	3
CHEF 1401—Basic Food Preparation.....	4
IFWA 1318—Nutrition for the Food Service Professional or HECO 1322—Principles of Nutrition.....	3
	<b>16</b>
<b>Second Term</b>	
RSTO 1313—Hospitality Supervision.....	3
RSTO 2405—Management of Food Production and Service.....	4
RSTO 1301—Beverage Management.....	3
RSTO 2301—Principles of Food and Beverage Controls.....	3
RSTO 2365—Practicum—Food and Beverage/ Restaurant Operations Manager.....	3
	<b>16</b>
<b>Third Term</b>	
Approved Electives.....	10
	<b>10</b>
<b>Certificate of Technology Total</b>	<b>42</b>
<b>Capstone Experience: CHEF 2365 or RSTO 2365</b>	

#### Approved Electives

CHEF 1345	CHEF 2365	CHEF 2402	IFWA 1305
IFWA 2441	PSTR 1401	PSTR 2431	

### Restaurant Management Certificates of Specialization

Application for these certificates should be made in the department office.

#### Assistant Restaurant and Food Manager

##### Central Campus Only

CHEF 1305—Sanitation and Safety
RSTO 1313—Hospitality Supervision
CHEF 1313—Food Service Operation/Systems
CHEF 1401—Basic Food preparation
RSTO 2405—Management of Food Production and Service

## Food Protection Management

### Central Campus Only

CHEF 1305—Sanitation and Safety

(Approved by Texas Department of State Health Services Texas Department of State Health Services, December 31, 1989)

**Note:** A grade of 75 or above on the final exam is required for certification.

## Surgical Technology

### Surgical Technology

#### Associate of Applied Science Degree

*(Pending approval by The Texas Higher Education Coordinating Board)*

#### Central Campus Only (two-year program)

*A criminal background check and/or drug screening is required for all Health Science students attending clinical courses, or practicum, and may be required prior to admission to the program.*

The Surgical Technology Program is accredited by the Commission for Accreditation for Allied Health Education Programs (CAAHEP) effective until 2015, in conjunction with the Accreditation Review Committee on Education in Surgical Technology (ARC-ST). Upon completion of the program, the student is granted a certificate of technology and is eligible to apply for the National Certification Examination given by the Association of Surgical Technologists.

The program curriculum is a balance of theoretical and technical courses with supervised clinical practicums at area hospitals, as well as the Texas Medical Center. The combination provides the student an opportunity for educational development and skill competency.

Applicants must meet the College's general admission requirements and successful completion of SRGT 1201. Permission must be obtained from the department chair in order to enroll in SRGT 1201, Medical Terminology, prerequisite course. After acceptance into the program, an applicant must have a physical examination by a licensed physician (M.D., D.O.) and complete documentation of updated immunization, including the series of the Hepatitis B vaccine. All students must process through a criminal/drug background check.

Surgical Technology students must earn a grade of C or above in all Surgical Technology courses and maintain an overall cumulative grade point average of at least 2.0 in order to graduate from the Surgical Technology Program.

Students earning a grade of D, W or F in any Surgical Technology course will be required to repeat the Surgical Technology course in which the unsatisfactory grade was earned and pass the course with a grade of C or better to progress in the program.

In subsequent terms, should a second grade of D, W or F be earned in any Surgical Technology course, even though the student may have repeated the course in which the first grade of D, W or F was earned and received, the student will be dismissed from the Surgical Technology Program.

Students are required to purchase uniforms and accessories specified by the Department of Surgical Technology. Each student is responsible for his/her own transportation to the clinical areas. Each student who registers for surgical technology courses is required to purchase student liability insurance.

#### Philosophy

The philosophy of the Department of Surgical Technology parallels the philosophy of the San Jacinto Community College District. The surgical technologists are integral parts of the surgical team who work closely with nurses and surgeons to provide the best possible care for the patient during the intraoperative phase of a surgical procedure. Surgical technologists are responsible for assisting surgeon during surgery by passing instruments and other equipment to the surgeon in a prescribed manner and assisting to maintain sterility throughout the entire procedure.

#### Pre-Year 1

##### (Prerequisite)

	Credit
SRGT 1201—Medical Terminology .....	2
	<u>2</u>

#### First Term

SRGT 1260—Clinical—Surgical Technology/Technologist .....	2
SRGT 1505—Introduction to Surgical Technology .....	5
SRGT 1509—Fundamental of Perioperative Concepts and Techniques .....	5
VNSG 1320—Anatomy and Physiology for Allied Health .....	3
	<u>15</u>

#### Second Term

SRGT 1360—Clinical - Surgical Technology/Technologist .....	3
SRGT 1441—Surgical Procedures I .....	4
HPRS 2200—Pharmacology for Health Professions .....	2
HPRS 2301—Pathophysiology .....	3
	<u>12</u>

#### Summer Session

SRGT 1261—Clinical - Surgical Technology/Technologist .....	2
SRGT 1442—Surgical Procedures II .....	4
SRGT 2371—Special Cases and Needs .....	3
	<u>9</u>

# Technical Programs

## Third Term

MATH 1333—Contemporary Mathematics for Technical Programs or	
MATH 1314—College Algebra .....	3
ENGL 1301—Composition I .....	3
PHED Activity .....	1
Speech .....	3
PSYC 2301—General Psychology .....	3
	<b>13</b>

## Fourth Term

ENGL 2311—Technical Report Writing or	
ENGL 1302—Composition II .....	3
PHED Activity .....	1
*Humanities or Fine Arts .....	3
Approved Elective .....	3
	<b>10</b>

**Associate of Applied Science Degree Total** **61**

**Workplace Competency Verification: SRGT 1441 and External Learning Experience: SRGT 1261**

*\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*

## Surgical Technology Certificate of Technology

### Pre-Year 1

(Prerequisite)	Credit
SRGT 1201—Medical Terminology .....	2
	<b>2</b>

### Three-Term Program

First Term	Credit
SRGT 1260—Clinical I—Surgical .....	2
SRGT 1505—Introduction of Surgical Technology .....	5
SRGT 1509—Fundamentals of Aseptic Technique .....	5
VNSG 1320 Surgical Technology Anatomy and Physiology for Allied Health .....	3
	<b>15</b>

### Second Term

SRGT 1360—Clinical II—Surgical .....	3
SRGT 1441—Surgical Procedures I .....	4
HPRS 2200—Pharmacology .....	2
HPRS 2301—Pathophysiology .....	3
	<b>12</b>

### Third Term

SRGT 1261—Clinical III—Surgical .....	2
SRGT 1442—Surgical Procedures II .....	4
SRGT 2371—Special Cases/Needs .....	3
	<b>9</b>

**Certificate of Technology Total** **36**

## Workplace Competency Verification: SRGT 1442 and SRGT 1261

Upon completion of the program the student receives a certificate of technology and is eligible to write the National Certification Examination to become a certified surgical technologist.

## Surveying

See Geomatic Surveying Technology

## Truck Driving (Commercial)

### Central Campus Only

### Continuing Education

### Admission Requirements

Applicants for the San Jacinto Community College District Commercial Truck Driving courses must:

1. Be at least 18 years of age and pass a mandatory drug test.
2. Be in reasonably good physical condition and have no serious physical handicaps. (For guidelines, please read the Federal Motor Carrier Safety Regulations and Noise Emission Requirements, Chapter III—Federal Highway Administration, Department of Transportation—Subpart E—Physical Qualifications and Examinations—391.41)
3. If born outside the U.S. or who a graduate from high of a high school outside the U.S., all applicants must be able to provide adequate proof of competency in English or pass the English Proficiency Test administered by the Testing Center at the College. For appointments with the Testing Center, call 281.476.2025.
4. If enrolling with an F-1 Visa, must be certified for English competency and be approved by the International Student Advisor, located in room 156 in the Administration Building. For appointments with the Advisor, call 281.476.1840.
5. Have a valid Texas driver's license.
6. Have a valid Social Security number.

### Course Information

Day classes meet Monday through Thursday from 7 a.m. until 6 p.m. for six weeks. Weekend classes meet Saturdays and Sundays from 7 a.m. until 6 p.m. for 12 weeks. Each student will log approximately 800 miles of actual behind-the-wheel driving, pulling empty and loaded trailers. Total truck maintenance and safety, Department of Transportation Federal Motor Carrier Safety Regulations, and driving courtesy are covered. The Commercial Truck

Driving curriculum is designed to provide basic training in preparation for employment as a professional truck driver. A continuing education six-hour defensive driving course is also included.

Upon successful completion of the prescribed coursework, students receive an occupational certificate and a Department of Transportation certification. These non-credit courses are approved for Veterans Administration educational assistance. Job assistance is available to qualified students through the Commercial Truck Driving Department.

### Registration and Fees

NOTE: Registration is handled on a first-come, first-served basis. It is recommended that any interested students register early in order to guarantee a place in the class. Payment of the total cost of both courses is due upon registration. Students are asked to contact the department chair for the most recent costs. (Tuition, fees and contact hours are subject to change without notice.) For more information call 281.476.1872.

## Truck Driving (Commercial) Occupational Certificate

### (Continuing Education)

<b>First Course</b>	<b>Contact Hours</b>
CVOP 1013—Professional Truck Driving I .....	120

<b>Second Course</b>	
CVOP 1040—Professional Truck Driving II.....	120

<b>Occupational Certificate Total</b>	<b>240</b>
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**Capstone Experience: DOT Written and Driving Examination**

\* Commercial Truck Driving courses are offered through the cooperation of the Industrial Technology Division and the Continuing Education Office. Students who successfully complete the above course(s) will receive credit in Continuing Education Units (CEUs) equal to 1.0 CEU per 10 contact hours in class.

## Vision Care Technology

### Central Campus Only

*A criminal background check and/or drug screening is required for all Health Science students attending clinical courses, or practicum; and may be required prior to admission to the program.*

The Vision Care Technology Program provides students with skills to enter the field of vision care at an entry-level position or as a technician. The program instructs the students in visual systems, eye exam procedures with use of specialized equipment, administration of eye medication, history taking, clerical office duties and other skills appropriate in the vision care industry. Upon successful completion of the program, students will have entry-level skills in four specialized areas

of vision care: opticianary, contact lenses, optometry and ophthalmology.

The program consists of three levels of preparation. Students may exit the program with an occupational certificate, a certificate of technology, or an associate of applied science degree. Graduates of the program may pursue certifications in para-optometric assisting or as an ophthalmology technician. The program curriculum is a balance of theoretical and technical courses with practice in a vision care office.

Applicants must meet all general College admission requirements. After acceptance into the program, an applicant must have a physical examination by licensed personnel and documentation of updated immunizations. A valid Healthcare Provider CPR card must be submitted as well.

Vision Care Technology students must earn a grade of C or better in all Vision Care Technology courses and maintain an overall cumulative grade point average of at least 2.0 in order to graduate from the Vision Care Technology Program.

Any student earning a grade of D, W, or F in a Vision Care Technology course must repeat that course and pass with a grade of C or better.

A second earned grade of less than C in a Vision Care Technology course will result in the student's being dismissed from the program. To re-enter the program the student must submit a written petition to the Vision Care Technology Admission Committee, and satisfy the readmission criteria specified by the Committee.

## Vision Care Technology Associate of Applied Science Degree

<b>First Term</b>	<b>Credit</b>
HPRS 1101—Introduction to Health Professions .....	1
OPTS 1319—Vision Care Office Procedures.....	3
VNSG 1420—Anatomy and Physiology for Allied Health .....	4
ENGL 1301—Composition I .....	3
HPRS 1106—Medical Terminology .....	1
OPTS 1191—Special Topics in Opticianary/Dispensing Optician .....	1
OPTS 1311—Visual System.....	3
	<b>16</b>

<b>Second Term</b>	
ITSC 1309—Integrated Software Applications I or	
BCIS 1305—Business Computer Applications .....	3
OPTS 1501—Ophthalmic Dispensing.....	5
OPTS 1315—Basic Contact Lenses .....	3
OPTS 2441—Ophthalmic Technique .....	4
PHED Activity .....	1
	<b>16</b>

# Technical Programs

## Post-Year 1

### Summer Term

OPTS 1166—Practicum (or Field Experience)—Opticianary/ Ophthalmic Dispensing Optician I .....	1
HPRS 1105—Medical Law/Ethics for Health Professionals.....	1
POFM 1327—Medical Insurance .....	3
OPTS 2350—Ophthalmic Surgical Technology .....	3
<b>8</b>	

### Third Term

OPTS 2445—Advanced Ophthalmic Techniques .....	4
HPRS 2200—Pharmacology for Health Professionals.....	2
MATH 1333—Contemporary Mathematics for Technical Programs .....	3
OPTS 1391—Special Topics in Opticianary/Dispensing Optician .....	3
PHED Activity .....	1
<b>13</b>	

### Fourth Term

OPTS 2431—Advanced Ophthalmic Dispensing.....	4
OPTS 2266—Practicum (or Field Experience)—Opticianary/ Ophthalmic Dispensing Optician .....	2
*Humanities or Fine Arts .....	3
Speech .....	3
PSYC 2301—General Psychology .....	3
<b>15</b>	

### Associate of Applied Science Degree Total **68**

Capstone Experience: OPTS 1166 or OPTS 2266

\*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.

## Vision Care Technology

### Certificate of Technology (Technician)

Courses	Credit
<b>HRPS 1101—Introduction to Health Professions</b>	<b>1</b>
OPTS 1319—Vision Care Office Procedures.....	3
OPTS 1311—The Visual System .....	3
OPTS 1501—Ophthalmic Dispensing.....	5
OPTS 2441—Ophthalmic Techniques .....	4
OPTS 1315—Basic Contact Lenses .....	3
OPTS 1166— Practicum (or Field Experience)—Opticianary/ Ophthalmic Dispensing Optician I .....	1
HPRS 1105—Medical Law/Ethics for Health Professionals.....	1
OPTS 2445—Advanced Ophthalmic Techniques .....	4
HPRS 2200—Pharmacology for Health Professions .....	2
OPTS 2431—Advanced Ophthalmic Dispensing.....	4
OPTS 2266—Practicum (or Field Experience)—Opticianary/ Ophthalmic Dispensing Optician II .....	2
<b>Certificate of Technology Total</b>	<b>33</b>

Capstone Experience: OPTS 2266

## Vision Care Technology

### Occupational Certificate (Assistant)

HRPS 1101—Introduction to Health Professions .....	1
OPTS 1319—Vision Care Office Procedures.....	3
OPTS 1311—The Visual System .....	3
OPTS 1501—Ophthalmic Dispensing.....	5
OPTS 2441—Ophthalmic Techniques .....	4
OPTS 1166— Practicum (or Field Experience)—Opticianary/ Ophthalmic Dispensing Optician I .....	1
<b>Occupational Certificate Total</b>	<b>17</b>
<b>Capstone Experience: OPTS 1166</b>	

# Visual Communication

## Visual Communication

### Associate of Applied Science Degree

#### Central and South Campuses

The Visual Communication curriculum is designed to provide basic preparation for entry-level employment in visual (advertising/graphic/media) communication. The program will develop basic skills; electives will enable the student to specialize in a specific area of visual communication.

First Semester	Credit
ARTS 1311—Design I.....	3
ARTS 1316—Drawing I.....	3
ARTC 1325—Introduction to Computer Graphics .....	3
ENGL 1301—Composition I .....	3
PHED Activity .....	1
ARTS 2313—Design Communication I or ARTC 1317—Design Communication I .....	3
<b>16</b>	

#### Second Semester

ARTS 1312—Design II .....	3
ARTS 1317—Drawing II.....	3
ENGL 1302—Composition II .....	3
ARTS 1303—Art History .....	3
PHED Activity .....	1
ARTS 2314—Design Communications II or ARTC 2347—Design Communication II .....	3
<b>16</b>	

## Summer Session

ARTS 1304–Art History II .....	3
GOVT 2301–United States and Texas Politics and Constitutions .....	3
	<b>6</b>

## Third Semester

ARTC 1302–Digital Imaging I .....	3
ARTC 1327–Typography .....	3
Approved Elective .....	3
IMED 1301–Introduction to Multimedia or ARTV 1351–Digital Video .....	3
*MATH 1333–Contemporary Mathematics for Technical Programs or MATH 1314–College Algebra .....	3
	<b>15</b>

## Fourth Semester

Speech .....	3
ARTC 1321–Illustration Techniques .....	3
IMED 1316–Web Page Design I .....	3
Approved Elective .....	3
ARTC 2366–Practicum–Graphic Design, Commercial Art and Illustration or ARTC 2335–Portfolio Development for Graphic Design.....	3
	<b>15</b>
	<b>68</b>

### Associate of Applied Science Degree Total

Capstone Experience: ARTC 2366 or 2335

### Approved Electives

ARTV 1303	ARTS 2341	ARTS 2342	ARTV 1341
ARTV 1345	ARTC 1353	ARTC 2341	ARTS 2316
ARTS 2317	ARTS 2323	ARTS 2324	ARTS 2326
ARTS 2327	ARTS 2333	ARTS 2334	ARTS 2356
ARTS 2357	ARTS 2366	ARTS 2367	ARTV 1301
BGMT 1303	DFTG 1413	ARTV 1351	IMED 2315
IMED 2345	ITSW 1310	MRKG 1311	

\* Remedial courses (those courses which have numbers beginning with 0) do not apply toward the associate degree. Technical courses do not transfer to a senior institution. See an Art Department Counselor for information.

## Visual Communication Certificate of Technology

### Central and South Campuses

This certificate of technology is designed to meet the needs of students who desire to enter the graphic arts field in a minimum amount of time. All courses required for the Visual Communication Certificate of Technology may be used in completing the Visual Communication Associate of Applied Science Degree.

## First Term

	Credit
ARTS 1311–Design I .....	3
ARTS 1316–Drawing I .....	3
ARTC 1325–Introduction to Computer Graphics or ARTC 1317–Design Communication I .....	3
ARTS 2313–Design Communications I .....	3
ARTS 1301–Art Appreciation or ARTS 1303–Art History I or ARTS 1304–Art History II .....	3
	<b>15</b>

## Second Term

ARTS 1312–Design II .....	3
ARTS 1317–Drawing II .....	3
ARTS 2314–Design Communication II or ARTC 2347–Design Communication II .....	3
	<b>9</b>

## Third Term

ARTC 1302–Digital Imaging I .....	3
IMED 1301–Introduction to Multimedia or ARTV 1351–Digital Video .....	3
	<b>6</b>

## Fourth Term

ARTC 2366–Field Experience–Graphic Design, Commercial Art and Illustration or ARTC 2335–Portfolio Development for Graphic Design .....	3
	<b>33</b>

### Certificate of Technology Total

Capstone Experience: ARTC 2366 or ARTC 2335

## Multimedia/Computer Animation Certificate of Technology

### Central and South Campuses

Students desiring skill and knowledge in the specialized area of multimedia/computer animation enter the more advanced electronic portion of the visual communication field. Students must successfully complete the specified courses with a grade of C or better. Students must meet course prerequisites or be approved by the department chair.

## First Term

IMED 1301–Introduction to Multimedia .....	3
ITSW 1310–Presentation Media Software .....	3
ARTV 1351–Digital Video .....	3
ARTV 1303–Basic Animation .....	3
ARTV 1341–3D Animation I .....	3
	<b>15</b>

# Technical Programs

## Second Term

IMED 2345–Interactive Multimedia II.....	3
ARTV 1301–Animation 2D.....	3
ARTC 2341–3D Animation II.....	3
ARTC 2366–Field Experience.....	3
ARTV 1345–3D Modeling and Rendering.....	3

15  
30

## Certificate of Technology Total

Capstone Experience:   ARTC 2366

## Visual Communication

### Certificate of Specialization

#### Central and South Campuses

Certificates of specialization address the needs of students desiring skill and knowledge in the specialized areas of Visual Communication. Students are eligible for a certificate when they successfully complete specific courses of study with a grade of C or better in any of the following specialized areas. Students must meet course prerequisites or be approved by the department chair.

#### Computer Animation

IMED 1301–Introduction to Multimedia
ARTV 1303–Basic Animation
ARTV 1301–Animation 2D
ARTC 2366– Field Experience

#### Multimedia

IMED 1301–Introduction to Multimedia
IMED 2345–Interactive Multimedia
ARTV 1303–Basic Animation
ARTC 2366–Field Experience

#### Web Page Design and Production

IMED 1301–Introduction to Multimedia
IMED 2345–Interactive Multimedia
IMED 1316–Web Page Design I
ARTC 2366–Field Experience

#### Electronic Photography and Pre-Press

##### South Campus Only

GRPH 2309–Electronic Pre-Press I
GRPH 2370–Electronic Pre-Press II
ARTC 2366–Field Experience

# Welding Technology

## Welding Technology

### Associate of Applied Science Degree

#### Central and North Campuses

The growing demand for qualified welders has necessitated the availability of a curriculum designed to meet the needs of the welding industry. Students graduating from the program will be skillful and have a good understanding of the related and technical information associated with welding. Graduates should be qualified to pass the entry-level certification tests as required by industry. Students completing the program outlined below will earn an Associate of Applied Science Degree.

The curriculum focuses on the introductory, advanced and high technology welding skills required in manufacturing, industry and in research.

First Term	Credit
WLDG 1528–Introduction to Shielded Metal Arc (SMAW) Welding.....	5
WLDG 1530–Introduction to Gas Metal Arc (GMAW) .....	
Welding .....	5
Speech .....	3
MATH 1333–Contemporary Mathematics for Technical Programs .....	3
PHED Activity .....	1
	<b>17</b>

#### Second Term

WLDG 1534–Introduction to Gas Tungsten Arc (GTAW) Welding .....	5
WLDG 2543–Advanced Shielded Metal Arc (SMAW) Welding .....	5
ENGL 1301–Composition I .....	3
*Humanities or Fine Arts .....	3
	<b>16</b>

#### Third Term

WLDG 1535–Introduction to Pipe Welding .....	5
WLDG 2551–Advanced Gas Tungsten Arc (GTAW) Welding .....	5
ENGL 2311–Technical Report Writing or ENGL 1302–Composition II .....	3
ITSC 1309–Integrated Software Applications I or BCIS 1305–Business Computer Applications .....	3
	<b>16</b>

## Fourth Term

WLDG 2553—Advanced Pipe Welding .....	5
*Behavioral or Social Science .....	3
WLDG 2571—Advanced Gas Tungsten Arc (GTAW) Welding	
Stainless Steel .....	5
PHED Activity .....	1
	<u>13–14</u>

**Associate of Applied Science Degree Total**                   **62–63**

**Capstone Experience: WLDG 2551**

\* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts and Behavioral and Social Sciences sections of the Transfer Core curriculum.

## Combination Welder Certificate of Technology

### Central and North Campuses

The Gas Shielded Metal Arc Welding Certificate of Technology is designed to give entry-level welding experience to those students interested in taking GMAW plate and pipe welding certification tests as required by industry. Instruction is provided on plate and pipe welding positions on carbon steel.

	<b>Credit</b>
WLDG 1528—Introduction to Shielded Metal Arc (SMAW) Welding ...	5
WLDG 1534—Introduction to Gas Tungsten Arc (GTAW) Welding .....	5
WLDG 1535—Introduction to Pipe Welding .....	5
WLDG 2543—Advanced Shielded Metal Arc (SMAW)	
Welding .....	5
WLDG 2551—Advanced Gas Tungsten Arc (GTAW)	
Welding .....	5
WLDG 2553—Advanced Pipe Welding .....	5
<b>Certificate of Technology Total</b>	<b>30</b>
<b>Capstone Experience: WLDG 2551</b>	

## Gas Shielded Welding Certificate of Technology

### Central and North Campuses

The Gas Shielded Welding Certificate of Technology is designed to give entry-level welding experience to those students interested in taking Gas Metal Arc (GMAW) and Gas Tungsten Arc (GTAW) plate and pipe welding certification tests as required by industry. Instruction is provided on plate and pipe welding positions on carbon steel.

	<b>Credit</b>
WLDG 1530—Introduction to Gas Metal Arc (GTAW)	
Welding .....	5
WLDG 1534—Introduction to Gas Tungsten Arc (GTAW) Welding .....	5
WLDG 2551—Advanced Gas Tungsten Arc (GTAW) Welding .....	5
WLDG 2571—Advanced Gas Tungsten Arc (GTAW) Welding—Stainless	
Steel .....	5
Approved Elective .....	4–5
<b>Certificate of Technology Total</b>	<b>24–25</b>
<b>Capstone Experience: WLDG 2571</b>	

### Approved Electives

DFTG 1405	DFTG 2417	NDTE 1410	METL 1405
METL 2435	WLDG 1528	WLDG 1535	WLDG 2543
WLDG 2553			

## Structural Welder Occupational Certificate

### Central and North Campuses

The Structure Welder Certificate provides students with entry-level skills for immediate employment. Courses focus on knowledge and skills required for Shielded Metal Arc Welding (SMAW) to prepare students to pass many structural welding tests as required by industry, fabrication companies, and shipyards. These courses may also be applied toward the Stick Pipe Welding Occupational Certificate, the Combination Welder Certificate of Technology and the Associate of Applied Science Degree in Welding Technology.

	<b>Credit</b>
WLDG 1528—Introduction to Shielded Metal Arc (SMAW) Welding ...	5
WLDG 2543—Advanced Shielded Metal Arc (SMAW)	
Welding .....	5
WLDG—Elective .....	5
<b>Occupational Certificate Total</b>	<b>15</b>
<b>Capstone Experience: WLDG 2543</b>	

### Approved Electives:

WLDG 1535	WLDG 2553	WLDG 1534	WLDG 2551
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## Stick Pipe Welder Occupational Certificate

### Central and North Campuses

This series of courses introduces the student to various aspects within the Shielded Metal Arc Welding (SMAW) of pipe according to common welding codes and procedures. Upon completion of this certificate, student should be successful at completing SMAW pipe weld tests as required by industry and fabrication companies. These courses may also be applied toward the Combination Pipe Welder Certificate of Technology, and the Associate of Applied Science Degree in Welding Technology.

	<b>Credit</b>
WLDG 1528—Introduction to Shielded Metal Arc (SMAW) Welding ...	5
WLDG 1535—Introduction to Pipe Welding .....	5
WLDG 2543—Advanced Shielded Metal Arc (SMAW) Welding .....	5
WLDG 2553—Advanced Pipe Welding .....	5
<b>Occupational Certificate Total</b>	<b>20</b>
<b>Capstone Experience:</b> WLDG 2553	

## Welding Technology Continuing Education Certificate

### Central and North Campuses

#### Contact Hours

WLDG 1028—Introduction to Shielded Metal Arc (SMAW) Welding	128
WLDG 1034—Introduction to Gas Tungsten Arc (GTAW) Welding ..	128
WLDG 1035—Introduction to Pipe Welding .....	128
WLDG 2043—Advanced Shielded Metal Arc (SMAW) Welding .....	128
WLDG 2051—Advanced Gas Tungsten Arc (GTAW) Welding .....	128
WLDG 2053—Advanced Pipe Welding .....	128
<b>Certificate of Technology Total</b>	<b>768</b>
<b>Capstone Experience:</b> WLDG 2051	

## Welding Technology - Sheet Metal Continuing Education Certificate

### Continuing Education

#### North Campus Only

	<b>Contact Hours</b>
MCHN 1001—Sheet Metal I.....	72
MCHN 1049—Sheet Metal II.....	72
MCHN 1071—Sheet Metal IIB.....	72
MCHN 1053—Sheet Metal III.....	72
MCHN 1072—Sheet Metal IIIB.....	72
MCHN 2030—Sheet Metal IV.....	72
MCHN 2071—Sheet Metal IVB.....	72
<b>Certificate of Technology Total</b>	<b>504</b>
<b>Capstone Experience:</b> MCHN 2071	