At San Jacinto College, students with specific career goals may earn associate of applied science (A.A.S.) 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 universities. Students should carefully study and follow the degree or certificate program requirements of whatever technical field they choose at the College.
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<td>Mental Health Technician Certificate of Technology</td>
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<tr>
<td>3MUS-RCRD</td>
<td>Music Recording A.A.S.</td>
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<tr>
<td>4MUS-AUDI</td>
<td>Music-Techniques-Audio Engineering Certificate of Technology</td>
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<tr>
<td>4MUS-BRCST</td>
<td>Music-Audio Broadcast Certificate of Technology</td>
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<tr>
<td>6MUS-SOUND</td>
<td>Music-Sound Recording Occupational Certificate</td>
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<td>3WLD-NDT</td>
<td>Non-Destructive Testing Technology A.A.S.</td>
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<td>4WLD-NDT</td>
<td>Non-Destructive Testing Certificate of Technology</td>
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<td>6WLD-QAT</td>
<td>Non-Destructive Testing Technology-Quality Assurance Technology Occupational Certificate</td>
</tr>
<tr>
<td>3NUR-LMOB</td>
<td>Nursing LVN-RN Mobility A.A.S.</td>
</tr>
<tr>
<td>3NUR-LTRN</td>
<td>Nursing LVN-RN Transition A.A.S.</td>
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<td>3NURS</td>
<td>Nursing RN A.A.S.</td>
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<tr>
<td>4NUR-LVN</td>
<td>Nursing-Licensed Vocational Nurse Certificate of Technology</td>
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<table>
<thead>
<tr>
<th>Major Codes</th>
<th>Technical Programs</th>
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<tbody>
<tr>
<td>3NUR-PMOB</td>
<td>Nursing-Paramedic-RN Mobility A.A.S.</td>
</tr>
<tr>
<td>3NUR-PTRN</td>
<td>Nursing-Paramedic-RN Transition A.A.S.</td>
</tr>
<tr>
<td>30CC-HLTH</td>
<td>Occupational Health and Safety A.A.S.</td>
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<tr>
<td>40CC-HLTH</td>
<td>Occupational Health &amp; Safety Certificate of Technology</td>
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<tr>
<td>3PARA-LGL</td>
<td>Paralegal A.A.S.</td>
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<td>4PHAR</td>
<td>Pharmacy Technician Certificate of Technology</td>
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<tr>
<td>3PH-THPY</td>
<td>Physical Therapy Assistant A.A.S.</td>
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<tr>
<td>3PROT</td>
<td>Process Technology A.A.S.</td>
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<tr>
<td>3PROT-CHM</td>
<td>Process Technology-Chemical Lab Technology A.A.S.</td>
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<tr>
<td>3PROT-PWRG</td>
<td>Process Technology-Power Generation Technology A.A.S.</td>
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<td>Process Technology-Power Generation Technology Certificate of Technology</td>
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<tr>
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<td>Real Estate A.A.S.</td>
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<td>4REAL</td>
<td>Real Estate Certificate of Technology</td>
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<td>6REAL</td>
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<td>3RESP</td>
<td>Respiratory Care A.A.S.</td>
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<td>3SURT</td>
<td>Surgical Technology A.A.S.</td>
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<tr>
<td>4VCDM</td>
<td>Visual Communication-Digital Media/Computer Animation Certificate of Technology</td>
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<td>3WLD</td>
<td>Welding Technology A.A.S.</td>
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<td>4WLD-C</td>
<td>Welding-Combination Welder Certificate of Technology</td>
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<td>4WLD-GAS</td>
<td>Welding-Gas Shielded Arc Certificate of Technology</td>
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<td>6WLD-ART</td>
<td>Welding-Art Welding Occupational Certificate</td>
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<tr>
<td>6WLD-STI</td>
<td>Welding-Stick Pipe Occupational Certificate</td>
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<tr>
<td>6WLD-STR</td>
<td>Welding-Structural Welder Occupational Certificate</td>
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</tbody>
</table>
Technical Programs

Associate of Applied Science Degrees

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

- 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.
- 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 to senior institutions; however, some colleges may accept certain courses in transfer. Students should consult a College educational planner/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 marketable skills achievement award.

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 educational planner/counselor or speak with the department chair offering the certificate program.

Accounting

Accounting (3ACNT)

Associate of Applied Science Degree

Central and North Campuses

The Accounting Associate of Applied Science 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ACCT 2301 Accounting Principles I</td>
<td>3</td>
</tr>
<tr>
<td>ACNT 1331 Federal Income Tax: Individual</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 1301 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BCIS 1305 Business Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 2301 Business Law I</td>
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Second Term

<table>
<thead>
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<th>Course</th>
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<tbody>
<tr>
<td>ACCT 2302 Accounting Principles II</td>
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</tr>
<tr>
<td>ACNT 1329 Payroll and Business Tax Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACNT 1311 Introduction to Computerized Acct</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 1341 Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>BUSG 2309 Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech</td>
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<tr>
<td>ACNT 2309 Cost Accounting</td>
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</tr>
<tr>
<td>BUSI 2304 Business Communications</td>
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</tr>
<tr>
<td>ENGL 1301 Composition I</td>
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</tr>
<tr>
<td>Economics or Psychology or Sociology</td>
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<tr>
<td>PHED Activity</td>
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Fourth Term

<table>
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<tbody>
<tr>
<td>ACNT 2366 Practicum- Accounting</td>
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<tr>
<td>ACNT 2304 Intermediate Accounting II</td>
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</tr>
<tr>
<td>ENGL 2311 Technical Report Writing or ENGL 1302 English Composition II</td>
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</tr>
<tr>
<td>Math 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
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<tr>
<td>PHED Activity</td>
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<tr>
<td>*Humanities or Fine Arts</td>
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<tr>
<td><strong>Subtotal</strong></td>
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</tr>
</tbody>
</table>

**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 (4ACNT)

Certificate of Technology

Central and North 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 College.

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

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ACCT 2301 Accounting Principles I</td>
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<tr>
<td>ACNT 1331 Federal Income Tax Individual</td>
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<tr>
<td>BUSI 1301 Introduction to Business</td>
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</tr>
<tr>
<td>BCIS 1305 Business Computer Apps</td>
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</tr>
<tr>
<td>BUSI 2301 Business Law I</td>
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</tr>
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</table>

Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ACCT 2302 Accounting Principles II</td>
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<td>ACNT 2303 Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACNT 1329 Payroll/Business Tax Acct</td>
<td>3</td>
</tr>
<tr>
<td>ACNT 1311 Intro to Computerized Acct</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 1341 Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1315 Public Speaking or 1321 Business and Professional Speech</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</tr>
</tbody>
</table>

Certificate of Technology Total 33

Capstone Experience: ACNT 1311

Accounting (6ACNT)

Occupational Certificate

Central and North 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 in Accounting.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2301 Accounting Principles I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2302 Accounting Principles II</td>
<td>3</td>
</tr>
<tr>
<td>ACNT 1329 Payroll and Business Tax Accounting</td>
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<tr>
<td>ACNT 1331 Federal Income Tax: Individual</td>
<td>3</td>
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<tr>
<td>ACNT 1311 Intro to Computerized Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 1301 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BCIS 1305 Business Computer Applications</td>
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</tr>
<tr>
<td><strong>Occupational Certificate Total</strong></td>
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</tr>
</tbody>
</table>

Capstone Experience: ACNT 1311

Aeronautical Technology

Central Campus

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.

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

1. Students who have obtained a private, commercial, instrument and/or multi-engine rating prior to their first admission to the San Jacinto College pilot program may apply for advanced placement testing and/or course substitution according to the following guidelines:

   a. 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.

   b. 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 College. 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.

   c. The following courses are acceptable in specific options in which the course is not included as a requirement:
Technical Programs

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

- The College may, upon the flight contractor’s recommendation, refuse to enroll a student in a subsequent flight course.
- 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.
- Students may enroll in a maximum of two flight courses per registration period.
- 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.

- 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.)
- 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 (4AERO-DSP)**

**Certificate of Technology**

**Central Campus**

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

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIRP 1301 Air Navigation</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1311 Flight Theory</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1307 Aviation Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 2355 Propulsion Systems</td>
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<table>
<thead>
<tr>
<th>Second Term</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AIRP 2333 Aircraft Systems</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1341 Advanced Air Navigation</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1451 Instrument Ground School</td>
<td>4</td>
</tr>
<tr>
<td>AIRP 2331 Advanced Meteorology</td>
<td>3</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</table>
Career Pilot (4AERO-PLT)

Certificate of Technology

Central Campus

First Term

AIRP 1301 Air Navigation .................................................. 3
AIRP 1307 Aviation Meteorology .......................................... 3
AIRP 1311 Flight Theory .................................................... 3
AIRP 1215 Private Flight .................................................... 2
SUBTOTAL .............................................................. 11

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
SUBTOTAL .............................................................. 14

Third Term

AIRP 2337 Commercial Ground School ............................... 3
AIRP 2239 Commercial Flight ............................................. 2
AIRP 2251 Multiengine Flight ............................................. 2
AIRP 2336 Certified Flight Instructor-Airplane or
AIRP 2242 Flight Instructor-Instrument Airplane or
AIRP 2243 Flight Instructor-Multi-Engine Airplane ............... 3
SUBTOTAL .............................................................. 10

Certificate of Technology Total ...................................... 35-36

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

Second Term

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 or
MATH 1314 College Algebra ........................................... 3
PHED Activity ............................................................ 1
SUBTOTAL .............................................................. 16

Third Term

AIRP 1307 Aviation Meteorology .......................................... 3
**Humanities or Fine Arts .................................................. 3
ECON 2302 Principles of Microeconomics ............................ 3
ENGL 2311 Technical Report Writing .................................. 3
BMGT 1327 Principles of Management ................................ 3
PHED Activity ............................................................ 1
SUBTOTAL .............................................................. 16

Fourth Term

Approved Electives ......................................................... 3
BUSG 2309 Small Business Management ............................ 3
SUBTOTAL .............................................................. 6

Associate of Applied Science Degree Total ....................... 65

Capstone Experience: Aviation Business Plan

* College Preparatory 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 2337   AVIM 2339
AVIM 2331   AVIM 1301

Aviation Management (3AERO-MGT)

Associate of Applied Science Degree

Central Campus

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.

Technical Programs

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

Aircraft Maintenance Management Specialty (3AERO-MNT)

Associate of Applied Science Degree

Central Campus

San Jacinto Community College District recognizes the Federal Aviation Administration (FAA) Certification for Airframe and Powerplant Technician as the equivalent of 36 semester hours of college course work. In addition to this FAA certification, 35 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. Prerequisite is FAA Certification.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>BMGT 1301 Supervision</td>
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<td>ENGL 1301 Composition I</td>
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<td>BCIS 1305 Business Computer Applications</td>
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<td>**Behavioral or Social Science</td>
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Second Term

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<td>Approved Aviation Elective</td>
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<td>*MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
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Third Term

<table>
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<tr>
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<td>**Behavioral or Fine Arts</td>
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Capstone Experience: Aviation Business Plan

<table>
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<tr>
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<tbody>
<tr>
<td>AIRP 1301 Air Navigation</td>
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<tr>
<td>AIRP 1307 Aviation Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1311 Flight Theory</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1215 Private Flight</td>
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<td>*MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
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<td>AIRP 1347 Human Factors in Aviation</td>
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Approved Electives

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</table>

Pilot Development Program (3AERO-PDP)

Associate of Applied Science Degree

Central Campus

The Pilot Development Program (PDP) is an ongoing effort of the College and the Aerosim Flight 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 Aerosim Flight Academy. Successful students may be given interviews for a first officer position with one of the Aerosim Flight Academy approved FAA Part 121 air carriers, including Jet 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIRP 1301 Air Navigation</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1307 Aviation Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1311 Flight Theory</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1215 Private Flight</td>
<td>2</td>
</tr>
<tr>
<td>*MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1347 Human Factors in Aviation</td>
<td>3</td>
</tr>
<tr>
<td>**SUBTOTAL</td>
<td>17</td>
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Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AIRP 1341 Advanced Air Navigation</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1451 Instrument Ground School</td>
<td>4</td>
</tr>
<tr>
<td>AIRP 2331 Advanced Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 2250 Instrument Flight</td>
<td>2</td>
</tr>
<tr>
<td>AIRP 1255 Intermediate Flight</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
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<td>**SUBTOTAL</td>
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Third Term

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AIRP 2337 Commercial Ground School</td>
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<td>AIRP 1343 Aerodynamics</td>
<td>3</td>
</tr>
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<td>AIRP 2355 Propulsion Systems</td>
<td>3</td>
</tr>
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<td>AIRP 2239 Commercial Flight</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 2311 Technical Report Writing</td>
<td>3</td>
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<td>**Behavioral or Social Sciences</td>
<td>3</td>
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<tr>
<td>PHED Activity</td>
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<tr>
<td>**SUBTOTAL</td>
<td>18</td>
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</table>

** Semesters in which grades are required include: Fall, Spring, and Summer.

** 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.
### Air Conditioning Technology

**Associate of Applied Science Degree**

**North and South Campuses**

The air conditioning technology program is designed to provide students with the entry-level skills 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>HART 1401 Basic Electricity for HVAC</td>
<td>4</td>
</tr>
<tr>
<td>HART 1407 Refrigeration Principles</td>
<td>4</td>
</tr>
<tr>
<td>HART 1441 Residential Air Conditioning</td>
<td>4</td>
</tr>
<tr>
<td>HART 1445 Gas Electrical Heating</td>
<td>4</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
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</table>

#### Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HART 2442 Commercial Refrigeration</td>
<td>4</td>
</tr>
<tr>
<td>HART 2431 Advanced Electricity</td>
<td>4</td>
</tr>
<tr>
<td>HART 2441 Commercial Air Conditioning</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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#### Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Air Conditioning Approved Elective</td>
<td>3</td>
</tr>
<tr>
<td>Air Conditioning Approved Elective</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra or higher</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2311 Technical Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>BUSG 2309 Small Business Management</td>
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</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>15</strong></td>
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</table>

---

### Pilot Development Program

**Technical Programs**

**Fourth Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>AIRP 2333 Aircraft Systems</td>
<td>3</td>
</tr>
<tr>
<td>AVIM 2331 Airline Management</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 2251 Multi-Engine Flight</td>
<td>2</td>
</tr>
<tr>
<td><strong>Humanities or Fine Arts</strong></td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 2357 Turbine Aircraft Systems Ground School</td>
<td>3</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**Associate of Applied Science Degree Total** 70

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

*College Preparatory courses (those courses beginning with C) 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:**

1. Hours indicated for flight courses are flying hours and do not reflect the hours of oral instruction.

2. A combination of AIRP 1301, 1307, and 1311 prepares students to take the FAA Private Pilot written examination.

3. The completion of AIRP 2337 prepares students to take the FAA Commercial Pilot written examination.

4. The completion of AIRP 1451 prepares the student to take the FAA Instrument Pilot written examination.

---

### Air Conditioning Technology (3AIRC)

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### Certificate of Technology

**Central Campus**

#### First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AIRP 1307 Aviation Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1347 Human Factors in Aviation</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 1343 Aerodynamics</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 2331 Advanced Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>AVIM 2331 Airline Management</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 2355 Propulsion Systems</td>
<td>3</td>
</tr>
<tr>
<td>AVIM 1301 Introduction to Aviation Management or AVIM 2339 Aviation Marketing</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 2333 Aircraft Systems</td>
<td>3</td>
</tr>
<tr>
<td>AIRP 2357 Turbine Aircraft Systems Ground School</td>
<td>3</td>
</tr>
<tr>
<td><strong>Certificate of Technology Total</strong></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>

Capstone Experience: Comprehensive Department Examination
Fourth Term

HART 2345 Residential Air Conditioning Systems Design .......... 3
HART 2302 Commercial Air Conditioning Systems Design .......... 3
HART 2301 A/C and Refrigeration Codes or
  HART 2368 Practicum - Heating, A/C and
  Refrigeration Technician ............................................... 3
Speech ........................................................................... 3
*Behavioral or Social Science ............................................. 3
*Humanities or Fine Arts .................................................... 3
SUBTOTAL 18

Associate of Applied Science Degree Total 66

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 HART 1356

Commercial and Industrial Air Conditioning (4AIRC-COMM)

Certificate of Technology

North and South Campuses

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.

First Term

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
SUBTOTAL 16

Second Term

HART 2431 Advanced Electricity ............................. 4
HART 2441 Commercial Air Conditioning ................... 4
HART 2301 A/C and Refrigeration Codes or
  HART 2368 Practicum - Heating, A/C and
  Refrigeration Technician ............................................... 3
Air Conditioning Approved Elective ............................. 3
SUBTOTAL 14

Certificate of Technology Total 16

Approved Electives
HART 1356 HART 2301 HART 2302 HART 2334
HART 2343 HART 2345 HART 2368 HART 2442
HART 2449

Commercial and Industrial Air Conditioning (4AIRC)

Certificate of Technology

North and South Campuses

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.

First Term

HART 1401 Basic Electricity for HVAC ......................... 4
HART 1407 Refrigeration Principles ............................. 4
HART 1441 Residential Air Conditioning .................... 4
HART 1445 Gas Electrical Heating .............................. 4
SUBTOTAL 16

Second Term

HART 2431 Advanced Electricity ............................. 4
HART 2441 Commercial Air Conditioning ................... 4
HART 2301 A/C and Refrigeration Codes or
  HART 2368 Practicum - Heating, A/C and
  Refrigeration Technician ............................................... 3
Air Conditioning Approved Elective ............................. 3
SUBTOTAL 14

Certificate of Technology Total 30

Capstone Experience: HART 2301 or HART 2368

Approved Electives
HART 1356 HART 2301 HART 2302 HART 2334
HART 2343 HART 2345 HART 2368 HART 2442
HART 2449
Air Conditioning Technology (6AIRC)

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.

First Term
HART 1401 Basic Electricity for HVAC ........................................... 4
HART 1407 Refrigeration Principles .............................................. 4
HART 1441 Residential Air Conditioning ........................................ 4
HART 1445 Gas Electrical Heating ................................................. 4
Occupational Certificate Total 16
Capstone Experience: HART 1441

Applied Computer Electronics Technology
See Electronics Technology

Automotive Collision Repair Technology

Automotive Collision Repair Technology (3ABDR-CR)

Associate of Applied Science Degree
North and South Campuses
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
ABDR 1307 Collision Repair Welding ............................................. 3
ABDR 1407 Collision Repair Welding ............................................. 3
ABDR 1431 Basic Refinishing ...................................................... 4
ABDR 1303 Vehicle Design and Structural Analysis ....................... 3
Physical Education ........................................................................ 1
SUBTOTAL 15

Second Term
ABDR 2541 Major Collision Repair and Panel Replacement ............ 5
ABDR 2502 Auto Body Mechanical and Electrical Service .............. 5
ENGL 2311 Technical Report Writing .......................................... 3
*Humanities or Fine Arts ............................................................... 3
SUBTOTAL 14

Third Term
Assocate 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 (4ABCR-CR)

Certificate of Technology
North and South Campuses

First Term
ABDR 1307 Collision Repair Welding ............................................. 3
ABDR 1519 Basic Metal Repair ...................................................... 5
ABDR 1431 Basic Refinishing ...................................................... 4
ABDR 1303 Vehicle Design and Structural Analysis ....................... 3
SUBTOTAL 15

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
SUBTOTAL 15
## Technical Programs

### Third Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABDR 1449</td>
<td>Automotive Plastic Repair</td>
<td>4</td>
</tr>
<tr>
<td>ABDR 2380</td>
<td>Cooperative Education - Autobody Collision and Repair Technology/Technician</td>
<td>3</td>
</tr>
<tr>
<td>ABDR 2502</td>
<td>Auto Body Mechanical and Electrical Service</td>
<td>5</td>
</tr>
</tbody>
</table>

**SUBTOTAL** | **12**

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

**Capstone Experience:** ABDR 2380

### Automotive Non-Collision Repair (4ABCR-NC)

### Certificate of Technology

#### North and South Campuses

#### First Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABDR 1519</td>
<td>Basic Metal Repair</td>
<td>5</td>
</tr>
<tr>
<td>ABDR 1558</td>
<td>Intermediate Refinishing</td>
<td>5</td>
</tr>
<tr>
<td>ABDR 1431</td>
<td>Basic Refinishing</td>
<td>4</td>
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**SUBTOTAL** | **14**

#### Second Term

<table>
<thead>
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<tr>
<td>ABDR 1555</td>
<td>Minor Metal Repair</td>
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<tr>
<td>ABDR 1303</td>
<td>Vehicle Design and Structural Analysis</td>
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</tr>
<tr>
<td>ABDR 2551</td>
<td>Specialized Refinishing Techniques</td>
<td>5</td>
</tr>
<tr>
<td>ABDR 2549</td>
<td>Advanced Refinishing</td>
<td>5</td>
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</tbody>
</table>

**SUBTOTAL** | **13**

**Certificate of Technology Total** | **27**

**Capstone Experience:** ABDR 2549

### Automotive Painting Specialty (6ACRT-PNT)

### Occupational Certificate

#### North and South Campuses

#### First Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
</tr>
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<tbody>
<tr>
<td>ABDR 1431</td>
<td>Basic Refinishing</td>
<td>4</td>
</tr>
<tr>
<td>ABDR 1558</td>
<td>Intermediate Refinishing</td>
<td>5</td>
</tr>
<tr>
<td>ABDR 2551</td>
<td>Specialized Refinishing Techniques</td>
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</tr>
<tr>
<td>ABDR 2549</td>
<td>Advanced Refinishing</td>
<td>5</td>
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</tbody>
</table>

**Occupational Certificate Total** | **19**

**Capstone Experience:** ABDR 2551

### Management Specialty (3ABCR-MGT)

### Associate of Applied Science Degree

#### North and South Campuses

#### First Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABDR 1307</td>
<td>Collision Repair Welding</td>
<td>3</td>
</tr>
<tr>
<td>ABDR 1519</td>
<td>Basic Metal Repair</td>
<td>5</td>
</tr>
<tr>
<td>ABDR 1431</td>
<td>Basic Refinishing</td>
<td>4</td>
</tr>
<tr>
<td>ABDR 1303</td>
<td>Vehicle Design and Structural Analysis</td>
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<td>PHED Activity</td>
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**SUBTOTAL** | **16**

#### Second Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ABDR 2541</td>
<td>Major Collision Repair and Panel Replacement</td>
<td>5</td>
</tr>
<tr>
<td>ABDR 1441</td>
<td>Structural Analysis and Damage Repair I</td>
<td>4</td>
</tr>
<tr>
<td>ABDR 2353</td>
<td>Color Analysis and Paint Matching</td>
<td>3</td>
</tr>
<tr>
<td>ABDR 1315</td>
<td>Vehicle Interior Trim and Hardware</td>
<td>3</td>
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<tr>
<td>PHED Activity</td>
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</table>

**SUBTOTAL** | **16**

#### Third Term

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ABDR 1323</td>
<td>Front and Rear Wheel Alignment</td>
<td>3</td>
</tr>
<tr>
<td>ABDR 2255</td>
<td>Collision Repair Estimating</td>
<td>2</td>
</tr>
<tr>
<td>MATH 1333</td>
<td>Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

*Behavioral or Social Sciences | 3

**SUBTOTAL** | **14**
Fourth Term Credit
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

SUBTOTAL 16
Associate of Applied Science Degree Total  62

Capstone Experience: ABDR 2257

* 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 Specialty (4ABCR-MGT)

Certificate of Technology
North and South Campuses

First Term Credit
ABDR 1307 Collision Repair Welding ............................................. 3
ABDR 1519 Basic Metal Repair ..................................................... 5
ABDR 1431 Basic Refinishing ....................................................... 4
ABDR 1303 Vehicle Design and Structural Analysis ....................... 3

SUBTOTAL 15

Second Term Credit
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

SUBTOTAL 15

Third Term Credit
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

SUBTOTAL 12

Certificate of Technology Total  42

Capstone Experience: ABDR 2257

Automotive Technology

Automotive Technology (3AUTO)

Associate of Applied Science Degree
Central Campus

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.

First Term Credit
AUMT 1305 Intro to Automotive Technology ............................. 3
AUMT 1407 Automotive Electrical Systems .............................. 4
AUMT 1316 Auto Suspension and Steering ................................. 3
Math 1333 Contemporary Mathematics for Technical Programs or
Math 1314 College Algebra ....................................................... 3
PHED Activity  .......................................................................... 1

Subtotal 14

Second Term Credit
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

Subtotal 16

PostY1Summer Credit
AUMT 1345 Auto Climate Control Systems ............................... 3
AUMT 2307 Hybrid Systems Diagnostics .................................... 3

Subtotal 6

Third Term Credit
AUMT 2417 Automotive Engine Performance Analysis I ............ 4
AUMT 2321 Auto Elect Diagnosis & Repair ................................ 3
Behavioral and Social Sciences ............................................... 3
Humanities or Fine Arts ............................................................ 3

Subtotal 13
Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2425 Auto Transmission &amp; Transaxle</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2313 Auto Drive Train and Axles</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2434 Automotive Engine Performance Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>PHED Activity</td>
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</tr>
<tr>
<td>ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications</td>
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<tr>
<td><strong>Subtotal</strong></td>
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</table>

Approved Electives: AUMT 2388

Capstone Experience: National A.S.E. Certification Exams

* College Preparatory 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 students are required to furnish their own tools for automotive courses. (See a program instructor or the department chair for required tool list.)

Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2313 Auto Drive Train and Axles</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
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</table>

Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2425 Auto Transmission &amp; Transaxle</td>
<td>4</td>
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<tr>
<td>AUMT 2307 Hybrid Systems Diagnostics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>7</strong></td>
</tr>
</tbody>
</table>

Certificate of Technology Total 36

Approved Electives: AUMT 2388

Capstone Experience: National A.S.E. Certification Exams

Automotive students are required to furnish their own tools for automotive courses. (See a program instructor or the department chair for required tool list.)

Automotive Technology (4AUTO)

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.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AUMT 1305 Intro to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1407 Automotive Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 1316 Auto Suspension and Steering</td>
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<tr>
<td><strong>Subtotal</strong></td>
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Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>AUMT 1310 Automotive Brake Systems</td>
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<tr>
<td>AUMT 1419 Automotive Engine Repair</td>
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</tr>
<tr>
<td>AUMT 2311 Automotive Electronic Controls</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>10</strong></td>
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</table>

Post Y1 Summer

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AUMT 1345 Auto Climate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2321 Auto Elect Diagnosis &amp; Repair</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
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Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1310 Automotive Brake Systems</td>
<td>3</td>
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<tr>
<td>AUMT 1345 Auto Climate Control Systems</td>
<td>3</td>
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<tr>
<td>AUMT 2388 Internship Automotive</td>
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<td><strong>Subtotal</strong></td>
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</table>

Occupational Certificate Total 22

Capstone Experience: 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 students are required to furnish their own tools for automotive courses. (See a program instructor or the department chair for required tool list.)
Automotive Technician Trainee – Under Hood* (4AUTO-UH)

Certificate of Technology

Central Campus

The Automotive Technician Trainee–Under Hood Certificate of Technology is a one-year certificate program designed for students who would like to get jobs diagnosing and repairing 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.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1305 Introduction to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1407 Automotive Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 1316 Automotive Suspension and Steering Systems</td>
<td>3</td>
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Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AUMT 1310 Automotive Brake Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2313 Automotive Manual Drive Train and Axles</td>
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<td><strong>Subtotal</strong></td>
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Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AUMT 2417 Automotive Engine Performance Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2425 Automotive Automatics Transmission and Transaxle</td>
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</tr>
<tr>
<td><strong>Subtotal</strong></td>
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</tbody>
</table>

Certificate of Technology Total                     | **24** |

Capstone Experience: National A.S.E. Certification Exams

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Certificate of Technology</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

* 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 1407, AUMT 2425, and AUMT 2417). Students completing all approved courses with a Honda emphasis will receive a certificate of technology. Automotive students are required to furnish their own tools for automotive courses. (See a program instructor or the department chair for required tool list.)

Automotive Technician Trainee – Under Car* (4AUTO-UC)

Certificate of Technology

Central Campus

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 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.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1305 Introduction to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1407 Automotive Electrical Systems</td>
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<td>AUMT 1419 Automotive Engine Repair</td>
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Second Term

<table>
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<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AUMT 1345 Automotive Climate Control Systems</td>
<td>3</td>
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<tr>
<td>AUMT 2311 Automotive Electronic Controls</td>
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<tr>
<td><strong>Subtotal</strong></td>
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Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2417 Automotive Engine Performance Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2307 Hybrid Systems Diagnostics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>7</strong></td>
</tr>
</tbody>
</table>

Certificate of Technology Total                     | **24** |

* Students enrolling in the Automotive Technician Trainee–Under Hood Certificate of Technology program may choose to specialize with a Honda emphasis in approved course (AUMT 2417). Students completing all approved courses with a Honda emphasis will receive a certificate of technology.

College Automotive Program (CAP)

Chrysler (3AUTO-C)

Associate of Applied Science Degree

Central Campus

The Chrysler College Automotive Program (CAP) 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 Chrysler and San Jacinto Community College District to lead to an Associate of Applied Science in Automotive Technology. The program requires students to work at a Chrysler dealership (Chrysler, Dodge, Jeep) as well as attend San Jacinto Community College District classroom and laboratory classes where they will work on Chrysler 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/autotech 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 Chrysler CAP at San Jacinto Community College District must apply electronically at www.sanjac.edu/autotech or contact the Automotive Technology Department in order to be added to the prospective student list and be approved by the automotive department chair.
- Students who are not sponsored by a Chrysler, Dodge, or Jeep dealership will not be allowed to register.
- 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.
- Students must maintain sponsorship of the Chrysler dealership to avoid being withdrawn from the Chrysler CAP classes.
- Students unable to adhere to the Chrysler CAP degree plan will be put on departmental probation.
- 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.
- Students failing to enroll in and successfully complete classes submitted in the approved action plan will be withdrawn from Chrysler CAP classes.
- Students enrolled in Chrysler CAP classes must have a valid driver’s license and be insurable.
- Students enrolled in Chrysler CAP must wear the dealer-provided uniform and be neatly groomed when working at the dealership and when attending all college classes.
- Students must complete a minimum of four (4) Automotive Service Excellence (A.S.E.) certifications to be eligible for graduation.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1305 Introduction to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1407 Automotive Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics Technology/Technician</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
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</tr>
<tr>
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<td>1</td>
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<td><strong>Subtotal</strong></td>
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Second Term

<table>
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<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AUMT 1419 Automotive Engine Repair</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2311 Automotive Electronic Controls</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics Technology/Technician</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
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PostY1Summer

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AUMT 1345 Automotive Climate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2313 Automotive Drive Train and Axles</td>
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<tr>
<td>AUMT 1280 Cooperative Education - Automobile/Automotive Mechanics Technology/Technician</td>
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Third Term

<table>
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<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AUMT 1316 Automotive Suspension and Steering Systems</td>
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<tr>
<td>AUMT 2417 Automotive Engine Performance Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics Technology/Technician</td>
<td>3</td>
</tr>
<tr>
<td>*Behavioral or Social Sciences</td>
<td>3</td>
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<tr>
<td>*Humanities or Fine Arts</td>
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<tr>
<td><strong>Subtotal</strong></td>
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</table>

Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AUMT 1310 Automotive Brake Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2425 Automotive Automatic Transmission and Transaxle</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2434 Automotive Engine Performance Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics Technology/Technician</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
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</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>17</strong></td>
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</tbody>
</table>

Associate of Applied Science Degree Total 69

Capstone Experience: National A.S.E. Certification Exams

Verification of Workplace Competencies:
1. External Learning Experience in the 4th semester: AUMT 2388
2. Eligibility for Credentialing Exam: National A.S.E. Certification

College Preparatory 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 students are required to furnish their own tools for automotive courses. (See a program instructor or the department chair for required tool list.)
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.
- Students who are not sponsored by a Honda dealership will not be allowed to register for Honda PACT classes.
- Students must maintain sponsorship by the Honda dealership to avoid being withdrawn from Honda PACT classes.
- Students unable to adhere to the Honda PACT degree plan will be placed on departmental probation.
- Students placed on department 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 department chair identifying course deficiencies during the following term(s). The automotive department chair must approve action plans.
- Students failing to enroll in and successfully complete the classes submitted in the approved action plan will be withdrawn from Honda PACT classes.
- Students enrolled in Honda PACT must have a valid driver’s license and be insurable.
- Students enrolled in the Honda PACT must wear the dealer-provided uniform when working at the dealership and when attending Honda PACT classes. 
- Students must complete a minimum of four (4) Automotive Service Excellence (A.S.E.) certifications to be eligible for graduation.
- Students must complete 150 self-study modules to be eligible for graduation.

Associate of Applied Science Degree

Central Campus

The Honda Professional Automotive Career Training (PACT) 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 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.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1305 Introduction to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1407 Automotive Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 1310 Automotive Brake Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1333 Contemporary Mathematics for Technical Programs or</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1314 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>14</strong></td>
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</table>

Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2321 Automotive Electrical Diagnosis &amp; Repair</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1316 Automotive Suspension and Steering Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1309 Integrated Software Applications I or</td>
<td>3</td>
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<tr>
<td>BCIS 1305 Business Computer Applications</td>
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PostY1Summer

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AUMT 1345 Automotive Climate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1419 Automotive Engine Repair</td>
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<tr>
<td><strong>Subtotal</strong></td>
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Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2313 Automotive Drive Train and Axles</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2417 Automotive Engine Performance Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics Technology</td>
<td>3</td>
</tr>
<tr>
<td>*Behavioral or Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>*Humanities or Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
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Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2311 Automotive Electronic Controls</td>
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<tr>
<td>AUMT 2425 Automotive Automatic Transmission and Transaxle</td>
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</tr>
<tr>
<td>AUMT 2434 Automotive Engine Performance Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics Technology</td>
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<td><strong>Subtotal</strong></td>
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</tbody>
</table>

**Associate of Applied Science Degree Total** 67

Capstone Experience: AUMT 2388 or National A.S.E.

Certification Exam

College Preparatory 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.

Automotive students are required to furnish their own tools for automotive courses. (See a program instructor or the department chair for required tool list.)
Honda Professional Automotive Career Training (PACT) (4AUTO-H)

Certificate of Technology

Central Campus

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.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>AUMT 1305 Intro to Automotive Technology</td>
<td>3</td>
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<tr>
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<td>4</td>
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<tr>
<td>AUMT 1310 Automotive Brake Systems</td>
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<td>Subtotal</td>
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</table>

Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2321 Automotive Electrical and Lighting Accessories</td>
<td>3</td>
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<td>AUMT 1316 Automotive Suspension and Steering Systems</td>
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</tr>
<tr>
<td>Subtotal</td>
<td>6</td>
</tr>
</tbody>
</table>

PostY1Summer

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1345 Auto Climate Control Systems</td>
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</tr>
<tr>
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<td>4</td>
</tr>
<tr>
<td>Subtotal</td>
<td>7</td>
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</tbody>
</table>

Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2313 Manual Drive Train and Axles</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2425 Automatic Transmission and Transaxle</td>
<td>4</td>
</tr>
<tr>
<td>Subtotal</td>
<td>7</td>
</tr>
</tbody>
</table>

Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2311 Automotive Electronic Controls</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2417 Automotive Engine Performance Analysis I</td>
<td>4</td>
</tr>
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<td>AUMT 2388 Internship - Automobile/Automotive Mechanics Technology/Technician</td>
<td>3</td>
</tr>
<tr>
<td>Subtotal</td>
<td>10</td>
</tr>
</tbody>
</table>

Certificate of Technology Total 42

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

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

Automotive students are required to furnish their own tools for automotive courses. (See a program instructor or the department chair for required tool list.)

Honda Professional Automotive Career Training (PACT) Maintenance and Light Repair (6AUTO-HM)

Occupational Certificate*

Central Campus

The Honda Professional Automotive Career Training (PACT) 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 the 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.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1305 Intro to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1407 Automotive Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 1310 Automotive Brake Systems</td>
<td>3</td>
</tr>
<tr>
<td>Subtotal</td>
<td>10</td>
</tr>
</tbody>
</table>

Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2321 Automotive Electrical and Lighting Accessories</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1316 Automotive Suspension and Steering Systems</td>
<td>3</td>
</tr>
<tr>
<td>Subtotal</td>
<td>6</td>
</tr>
</tbody>
</table>

Occupational Certificate Total 22

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.

Automotive students are required to furnish their own tools for automotive courses. (See a program instructor or the department chair for required tool list.)

Ford Motor Company Automotive Student Service Educational Training (ASSET) Ford Specialty (3AUTO-F)

Associate of Applied Science Degree

Central Campus

Ford Motor Company Automotive Student Service Educational Training (ASSET) 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 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.
- Students who are not sponsored by a Ford ASSET dealership will not be allowed to register for Ford ASSET classes.
- Students must maintain sponsorship by the Ford dealership to avoid being withdrawn from Ford ASSET classes.
- Students unable to adhere to the Ford ASSET degree plan will be placed on departmental probation.
- 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.
- Students failing to enroll in and successfully complete the classes submitted in the approved action plan will be withdrawn from Ford ASSET classes.
- Students enrolled in Ford ASSET must have a valid driver’s license and be insurable.
- Students enrolled in Ford ASSET must wear a dealer-provided uniform when working at the dealership and when attending Ford ASSET classes.
- Students must complete a minimum of four (4) Automotive Service Excellence (A.S.E.) certifications to be eligible for graduation.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1305 Introduction to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1407 Automotive Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics Technology/Technician</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
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Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1419 Automotive Engine Repair</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2311 Automotive Electronic Controls</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics Technology/Technician</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

PostY1Summer

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1345 Automotive Climate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1310 Automotive Brake Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1280 Cooperative Education - Auto</td>
<td>2</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td>8</td>
</tr>
</tbody>
</table>

Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1316 Auto Suspension and Steering</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2417 Auto Engine Perform Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics Technology/Technician</td>
<td>3</td>
</tr>
<tr>
<td><strong>Behavioral or Social Sciences</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Humanities or Fine Arts</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2313 Manual Drive Train and Axles</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2425 Auto Transmission and Transaxle</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2434 Automotive Engine Performance Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics Technology/Technician</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

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

* College Preparatory 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.

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

Automotive students are required to furnish their own tools for automotive courses. (See a program instructor or the department chair for required tool list.)
Technical Programs

Automotive Technology – Ford Specialty Maintenance and Light Repair (6AUTO-F)

Occupational Certificate*

Central Campus

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.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1305 Introduction to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1407 Automotive Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 1310 Automotive Braking Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1316 Automotive Suspension and Steering Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1345 Auto Climate Control Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Occupational Certificate Total 16

Capstone Experience: National A.S.E. Certification Exams

*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.

Automotive students are required to furnish their own tools for automotive courses. (See a program instructor or the department chair for required tool list.)

General Motors Automotive Service Educational Program (ASEP) (3AUTO-G)

Associate of Applied Science Degree

Central Campus

The General Motors Automotive Service Educational Program (ASEP) 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 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.
- Students who are not sponsored by a GM dealership will not be allowed to register for GM ASEP classes.
- Students must maintain sponsorship of the GM dealership to avoid being withdrawn from GM ASEP classes.
- Students unable to adhere to the GM ASEP degree plan will be placed on departmental probation.
- 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.
- Students failing to enroll in and successfully complete the classes submitted in the approved action plan will be withdrawn from GM ASEP classes.
- Students enrolled in GM ASEP must have and maintain a valid driver’s license and be insurable.
- Students enrolled in GM ASEP must wear a dealer-provided uniform when working at the dealership and when attending GM ASEP classes.
- Students must complete a minimum of four (4) Automotive Service Excellence (A.S.E.) certifications to be eligible for graduation.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1305 Introduction to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1407 Automotive Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics Technology/Technician</td>
<td>3</td>
</tr>
<tr>
<td>*MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
</tr>
</tbody>
</table>

SUBTOTAL 14
### Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1419 Automotive Engine Repair</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2311 Automotive Electronic Controls</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

### PostY1Summer

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1345 Automotive Climate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1316 Auto Suspension and Steering</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1280 Cooperative Education - Automobile/Automotive Mechanics</td>
<td>2</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>

### Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2313 Automotive Manual Drive Train and Axles</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2417 Automotive Engine Performance Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Behavioral or Social Sciences</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Humanities or Fine Arts</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

### Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1310 Automotive Brake Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2434 Automotive Engine Performance Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2425 Automatic Transmission and Transaxle</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2388 Internship - Automobile/Automotive Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Associate of Applied Science Degree**

**Central Campus**

The Technician Training & Education Network 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 Technician Training & Education Network 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 T-TEN classes.

2. Students must maintain sponsorship of the Toyota or Lexus dealership to avoid being withdrawn from T-TEN classes.

3. Students unable to adhere to the T-TEN 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 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 T-TEN classes.

6. Students enrolled in T-TEN must maintain a valid driver’s license and be able to acquire automobile insurance.
7. Students enrolled in T-TEN must wear the dealer provided uniform when working at the dealership and when attending T-TEN classes.

8. Students must complete a minimum of four (4) Automotive Service Excellence (A.S.E.) certifications to be eligible for graduation.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1305 Introduction to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1407 Automotive Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 1419 Automotive Engine Repair</td>
<td>4</td>
</tr>
<tr>
<td>Math 1333 Contemporary Mathematics for Technical Programs or Math 1314 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2311 Automotive Electronic Controls</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2321 Automotive Electrical Diagnosis and Repair</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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PostY1Summer

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>AUMT 1316 Automotive Suspension and Steering</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1345 Automotive Climate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
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</tbody>
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Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2388 Internship Automotive</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2417 Automotive Engine Performance Analysis I</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 1310 Automotive Brake Systems</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral or Social Sciences</td>
<td>3</td>
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<tr>
<td>Humanities or Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
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</table>

Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2313 Automotive Drive Train and Axles</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2425 Automotive Transmission and Transaxle</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2434 Automotive Engine Performance Analysis II</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 2388 Internship Automotive</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Associate of Applied Science Degree Total 67

Capstone Experience: AUMT 2388 or National A.S.E.

Certification Exams

* College Preparatory (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 Technician Training & Education Network (4AUTO-TTEN)

Certificate of Technology

Central Campus

The Technician Training & 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.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1305 Intro to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1407 Automotive Electrical Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUMT 1419 Automotive Engine Repair</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>11</strong></td>
</tr>
</tbody>
</table>

Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 2311 Automotive Electronic Controls</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 2321 Auto Elect Diagnosis &amp; Repair</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

PostY1Summer

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUMT 1316 Auto Suspension and Steering</td>
<td>3</td>
</tr>
<tr>
<td>AUMT 1345 Auto Climate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>
Third Term  
AUMT 2425 Auto Transmission & Transaxle ........................................... 4
AUMT 1310 Automotive Brake Systems .................................................. 3
Subtotal ................................................................. 7

Fourth Term  
AUMT 2313 Auto Drive Train and Axles ............................................. 3
AUMT 2417 Auto Engine Perform Analysis I .......................................... 4
AUMT 2388 Internship Automotive ....................................................... 3
Subtotal ................................................................. 10
Certificate of Technology Total .............................................................. 42
Capstone Experience: 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.

Automotive students are required to furnish their own tools for automotive courses.
(See a program instructor or the department chair for required tool list.)

Management Specialty
(3BMGT-MGMT)

Associate of Applied Science Degree
All Campuses

The Associate of Applied Science 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 an educational planner/counselor or the department chair of the Business Administration Department prior to registration.

First Term  
BCIS 1305 Business Computer Applications ........................................ 3
HRPO 1311 Human Relations ............................................................. 3
BMGT 1301 Supervision ................................................................. 3
BMGT 1313 Principles of Purchasing .................................................. 3
MRKG 2333 Principles of Selling ....................................................... 3

SUBTOTAL .................................................. 15

Second Term  
BMGT 2309 Leadership ........................................................................ 3
BMGT 1327 Principles of Management .............................................. 3
BMGT 1331 Production and Operations Management ....................... 3
BMGT 2368 Practicum (or Field Experience)  
Business Administration and Management .......................................... 3
HRPO 2301 Human Resources Management ...................................... 3
MRKG 1311 Principles of Marketing .................................................. 3

SUBTOTAL .................................................. 18

Third Term  
ENGL 1301 Composition I ............................................................... 3
SPCH 1315 Public Speaking or  
1321 Business and Professional Speech ........................................... 3
BUSI 2304 Business Communications ............................................. 3
BMGT 2368 Practicum (or Field Experience)  
Business Administration and Management .......................................... 3
BUSG 2309 Small Business Management .......................................... 3
PHED Activity .................................................................................. 1

SUBTOTAL .................................................. 16
### Management Specialty (6BMGT-MGMT)

#### Certificate of Technology

**All Campuses**

The Management Specialty 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.

<table>
<thead>
<tr>
<th>First Term</th>
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<tbody>
<tr>
<td>BCIS 1305 Business Computer Applications</td>
<td>3</td>
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<tr>
<td>HRPO 1311 Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 1301 Supervision</td>
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</tr>
<tr>
<td>BMGT 1313 Principles of Purchasing</td>
<td>3</td>
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<tr>
<td>MRKG 2333 Principles of Selling</td>
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<table>
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<tr>
<td>BMGT 1331 Production and Operations Management</td>
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<tr>
<td>BMGT 2309 Leadership</td>
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<td>HRPO 2301 Human Resources Management</td>
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<tr>
<td>BMGT 2368 Practicum (or Field Experience)</td>
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Certificate of Technology Total: 30

*Humanities or Fine Arts ............................................................... 3
PHED Activity ................................................................................ 1

**SUBTOTAL** 16

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.

### Occupational Certificate (3BMGT-ENTR)

**All Campuses**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BMGT 2309 Leadership or</td>
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<tr>
<td>BMGT 1313 Principles of Purchasing</td>
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<tr>
<td>HRPO 1311 Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>HRPO 2301 Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>MRKG 2333 Principles of Selling</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 1301 Supervision</td>
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</tr>
<tr>
<td><strong>Occupational Certificate Total</strong></td>
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</table>

Capstone Experience: HRPO 2301

### Small Business Entrepreneur Specialty

**All Campuses**

The Small Business Entrepreneur Specialty 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.

<table>
<thead>
<tr>
<th>First Term</th>
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<tbody>
<tr>
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<tr>
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<tr>
<td>BCIS 1305 Business Computer Applications</td>
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</tr>
<tr>
<td>BUSI 2301 Business Law I</td>
<td>3</td>
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<tr>
<td>BUSG 2309 Small Business Management</td>
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<td>HRPO 2301 Human Resources Management</td>
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<tr>
<td>ACNT 1311 Introduction to Computerized Accounting</td>
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<td>HRPO 2301 Human Resources Management</td>
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<tr>
<td>MRKG 2333 Principles of Selling</td>
<td>3</td>
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<tr>
<td>MRKG 1311 Principles of Marketing</td>
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<tr>
<td>BMGT 1341 Business Ethics</td>
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</table>
Third Term

BMGT 2309 Leadership ........................................... 3
ENGL 1301 Composition I ........................................... 3
MATH 1333 Contemporary Mathematics or
MATH 1314 College Algebra ................................. 3
BMGT 2368 Practicum (or Field Experience)
Business Administration and Management .......... 3
SPCH 1315 Public Speaking or
1321 Business and Professional Speech .............. 3
PHED Activity ....................................................... 1
SUBTOTAL ......................................................... 16

Fourth Term

ENGL 2311 Technical Report Writing or
ENGL 1302 English Composition II ..................... 3
BUSI 2304 Business Communications .................. 3
Economics or Psychology or Sociology ................ 3
BMGT 2368 Practicum (or Field Experience)
Business Administration and Management .......... 3
*Humanities or Fine Arts ........................................ 3
PHED Activity ....................................................... 1
SUBTOTAL ......................................................... 16

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 Specialty (4BMGT-ENTR)

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.

First Term

BCIS 1305 Business Computer Applications ........... 3
HRPO 1311 Human Relations .................................. 3
BMGT 1301 Supervision ....................................... 3
MRKG 1311 Principles of Marketing ....................... 3
MRKG 2333 Principles of Selling ............................. 3
SUBTOTAL ......................................................... 15

Second Term

ACNT 1303 Introduction to Accounting I or
ACCT 2301 Accounting Principles I .................... 3
BUSG 2309 Small Business Management ............... 3
HRPO 2301 Human Resources Management .......... 3
BUIS 2301 Business Law I ................................... 3
BMGT 2368 Practicum (or Field Experience)
Business Administration and Management .......... 3
SUBTOTAL ......................................................... 15

Certificate of Technology Total 30
Capstone Experience: BMGT 2368

E-Commerce Management (6MGST-ECOM)

Occupational Certificate

All Campuses

First Term

BMGT 1341 Business Ethics .................................... 3
MRKG 2312 e-Commerce Marketing ....................... 3
HRPO 1311 Human Relations ................................. 3
IMED 1316 Web Design I or
ITSC 1319 Internet/Web Page Development ........... 3
MRKG 1311 Principles of Marketing or
BMGT 1313 Principles of Purchasing .................... 3

Occupational Certificate Total 15
Capstone Experience: MRKG 2312

Foundations of Marketing Specialty (6BMGT-MRKG)

Occupational Certificate

All Campuses

First Term

BMGT 1301 Supervision ....................................... 3
HRPO 1311 Human Relations ................................. 3
MRKG 1311 Principles of Marketing ....................... 3
MRKG 2333 Principles of Selling ............................. 3
MRKG 2312 e-Commerce Marketing ....................... 3

Occupational Certificate Total 15
Capstone Experience: MRKG 2312
Management (MBMGT-MGMT)

Marketable Skills Achievement Award

All Campuses

First Term

BMGT 1301 Supervision ............................................................... 3
BMGT 1313 Principles of Purchasing or BMGT 2309 Leadership ............................................. 3
BMGT 2368 Practicum/Field Experience ........................................ 3
HRPO 1311 Human Relations ........................................................ 3

Marketable Skills Achievement Award Total 12

Business Office Technology

Executive/Administrative Assistant Specialty (3BOFT-EXE)

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

BCIS 1305 Business Computer Applications .................................. 3
BUSI 1304 Business Report Writing and Correspondence ..............  3
POFT 1319 Records and Information Management I ...................... 3
POFT 2301 Intermediate Keyboarding ........................................... 3
HRPO 1311 Human Relations ........................................................ 3

SUBTOTAL 15

Second Term

ACNT 1303 Introduction to Accounting I ....................................... 3
POFT 1309 Administrative Office Procedures I .............................. 3
POFI 1341 Computer Applications II .......................................... 3
POFT 1325 Business Math and Machine Applications ....................  3
POFT 1328 Business Presentations .............................................. 3
POFI 2331 Desktop Publishing for the Office ................................. 3

SUBTOTAL 18

Third Term

ACNT 1304 Introduction to Accounting II .................................... 3
BMGT 1341 Business Ethics ...................................................... 3
BUSI 1301 Introduction to Business ........................................... 3
BUSI 2304 Business Communications ........................................ 3
ENGL 1301 Composition I ....................................................... 3
PHED Activity ........................................................................... 1

SUBTOTAL 16

Fourth Term

POFT 2364 Practicum ............................................................... 3
Psychology or Sociology ............................................................ 3
SPCH 1315 Public Speaking or 1321 Business and Professional Speech ............................................. 3
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra ............................................. 3
*Humanities or Fine Arts ............................................................. 3
PHED Activity ........................................................................... 1

SUBTOTAL 16

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.

Executive/Administrative Assistant Specialty (4BOFT-E)

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

BCIS 1305 Business Computer Applications .................................. 3
POFT 1319 Records and Information Management I ...................... 3
BUSI 1304 Business Report Writing and Correspondence ..............  3
POFT 2301 Intermediate Keyboarding ........................................... 3
HRPO 1311 Human Relations ........................................................ 3

SUBTOTAL 15

Second Term

ACNT 1303 Introduction to Accounting I ....................................... 3
POFT 1309 Administrative Office Procedures I .............................. 3
POFI 1341 Computer Applications II .......................................... 3
POFT 1325 Business Math and Machine Applications ....................  3
POFT 1328 Business Presentations .............................................. 3
POFI 2331 Desktop Publishing .................................................... 3

SUBTOTAL 18

Certificate of Technology Total 33

Capstone Experience: POFI 2301
Legal Administrative Assistant Specialty (3BOFT-LGL)

**Associate of Applied Science Degree**

**All Campuses**

This two-year business office technology program leading to an associate of applied science degree is for the student preparing for jobs as a legal administrative assistant. Students desiring a bachelor’s degree should see a counselor or the business department chair prior to registration.

<table>
<thead>
<tr>
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<td>POFT 1328</td>
<td>3</td>
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<td>POFT 2301</td>
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<table>
<thead>
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<td>MATH 1333</td>
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<td>MATH 1314</td>
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<td>PHED Activity</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</table>

**Certificate of Technology**

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

<table>
<thead>
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<th>First Term</th>
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<td>POFT 2301</td>
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<tbody>
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<td>POFL 1305</td>
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<td>3</td>
</tr>
<tr>
<td>POFI 1341</td>
<td>3</td>
</tr>
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<td>BMGT 1341</td>
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<tbody>
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<td>BUSI 2301</td>
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<tr>
<td>HRPO 1311</td>
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<td><strong>SUBTOTAL</strong></td>
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</table>

**Medical Administrative Assistant Specialty (3BOFT-M)**

**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.

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
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<td>BUSI 1304</td>
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<tbody>
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<td>POFT 1319</td>
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<td>BUSI 1304</td>
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### Second Term

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<tbody>
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<tr>
<td>POFT 1309 Administrative Office Procedures I</td>
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<tr>
<td>MRMT 1307 Medical Transcription I</td>
<td>3</td>
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<tr>
<td>POFT 1325 Business Math and Machine Applications</td>
<td>3</td>
</tr>
<tr>
<td>POFT 2301 Intermediate Keyboarding</td>
<td>3</td>
</tr>
<tr>
<td>POFT 1328 Business Presentations</td>
<td>3</td>
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### Third Term

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<td>ENGL 1301 Composition I</td>
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<tr>
<td>BMGT 1341 Business Ethics</td>
<td>3</td>
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<tr>
<td>POFM 1327 Medical Insurance or MDCA 1343 Medical Insurance</td>
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### Fourth Term

<table>
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<tr>
<td>MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1315 Public Speaking or 1321 Business and Professional Speech</td>
<td>3</td>
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<tr>
<td>*Humanities or Fine Arts</td>
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<tr>
<td>Psychology or Sociology</td>
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<td><strong>SUBTOTAL</strong></td>
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</table>

### 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.

### Certificate of Technology

**Medical Administrative Assistant Specialty (4BOFT-M)**

#### 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.

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ACNT 1303 Introduction to Accounting I</td>
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<td>BUSI 1304 Business Report Writing and Correspondence</td>
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<td>BCIS 1305 Business Computer Applications</td>
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<tr>
<td>POFM 1371 Medical Terminology</td>
<td>3</td>
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<tr>
<td>POFT 1319 Records and Information Management I</td>
<td>3</td>
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### Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ACNT 1304 Introduction to Accounting II</td>
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<td>POFT 1309 Admin Office Procedures I</td>
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<td>MRMT 1307 Medical Transcription I</td>
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### Business Software Specialty (4BOFT-SW)

#### Certificate of Technology

**All Campuses**

<table>
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<th>Credit</th>
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<tbody>
<tr>
<td>BCIS 1305 Business Computer Applications</td>
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<tr>
<td>BUSI 1304 Business Report Writing and Correspondence</td>
<td>3</td>
</tr>
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<td>POFT 2301 Intermediate Keyboarding</td>
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</tr>
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</table>

### General Office Clerk (6BOFT-CL)

#### Occupational 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 Associate of Applied Science.

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>BUSI 1304 Business Report Writing and Correspondence</td>
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<td>BCIS 1305 Business Computer Applications</td>
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<td>POFT 1319 Records and Information Mgmt I</td>
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</tr>
<tr>
<td><strong>Occupational Certificate Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
Technical Programs

Accounting Specialty (MBOTA)

 Marketable Skills Achievement Award

 All Campuses

 The Accounting Specialty Marketable Skills Achievement Award is designed to provide entry-level skills and to be a foundation for completing a higher-level certificate or degree. Students must complete all courses in an award within three years and make a grade of C or better in each course. Application for these should be made in the office of Enrollment Services.

 First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACNT 1303 Introduction to Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACNT 1304 Introduction to Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACNT 1311 Introduction to Computerized Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BCIS 1305 Business Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td><strong>Marketable Skills Achievement Award Total</strong></td>
<td>12</td>
</tr>
</tbody>
</table>

Business Computer Applications Specialty (MBOTC)

 Marketable Skills Achievement Award

 All Campuses

 The Business Computer Applications Marketable Skills Achievement Award is designed to provide entry-level skills and to be a foundation for completing a higher-level certificate or degree. Students must complete all courses in an award within three years and make a grade of C or better in each course. Application for these awards should be made in the office of Enrollment Services.

 First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCIS 1305 Business Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>POFT 2301 Intermediate Keyboarding</td>
<td>3</td>
</tr>
<tr>
<td>POFT 1328 Business Presentations</td>
<td>3</td>
</tr>
<tr>
<td>POFI 1341 Computer Applications II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Marketable Skills Achievement Award Total</strong></td>
<td>12</td>
</tr>
</tbody>
</table>

General Office Specialty (MBOTG)

 Marketable Skills Achievement Award

 All Campuses

 The General Office Specialty Marketable Skills Achievement Award is 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 an award within three years and make a grade of C or better in each course. Application for these awards should be made to the office of Enrollment Services.

 First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 1304 Business Report Writing and Correspondence</td>
<td>3</td>
</tr>
<tr>
<td>POFT 1329 *Keyboarding and Document Formatting</td>
<td>3</td>
</tr>
<tr>
<td>POFT 2301 Intermediate Keyboarding</td>
<td>3</td>
</tr>
<tr>
<td>POFT 1319 Records and Information Management I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Marketable Skills Achievement Award Total</strong></td>
<td>12</td>
</tr>
</tbody>
</table>

 *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.

Legal Administration Assistant Specialty (MBOTL)

 Marketable Skills Achievement Award

 All Campuses

 The Legal Administrative Assistant Specialty Marketable Skills Achievement Award is designed to provide entry-level skills and to be a foundation for completing a higher-level certificate or degree. Students must complete all courses in an award within three years and make a grade of C or better in each course. Application for these should be made in the office of Enrollment Services.

 First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>BUSI 1304 Business Report Writing and Correspondence</td>
<td>3</td>
</tr>
<tr>
<td>BCIS 1305 Business Computer Applications I</td>
<td>3</td>
</tr>
<tr>
<td>POFL 2301 Legal Document Processing</td>
<td>3</td>
</tr>
<tr>
<td>POFT 2301 Intermediate Keyboarding</td>
<td>3</td>
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<tr>
<td><strong>Marketable Skills Achievement Award Total</strong></td>
<td>12</td>
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</tbody>
</table>

Chemical Technology

See Process Technology
Child Development/Early Childhood Education

Child Development/Early Childhood Education University Transfer Plan (1CHID)

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–6th grade, effective Fall 2008). 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 (3CHID-ECE)

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.

CDEC and TECA Student:

The 80th Texas Legislature passed a law, Senate Bill 758, that as of September 1, 2007, requires a Federal Bureau of Investigation (FBI) fingerprint check for anyone who is currently required to have a background check in a child care center. This includes any person(s), including volunteers, who are counted in the child/caregiver ratio. Child care center employees/volunteers will have to have the background fingerprints once every two (2) years. Similar legislation, Senate Bill 9, passed setting 2011 as the deadline for public school districts to be in compliance. FBI fingerprinting allows the state to check an individual’s criminal record in 50 states, rather than just checking for a record within the state of Texas, which is all that our current system allows us to do. Additionally, it addresses concerns with individuals using fake names and social security numbers.

After some preliminary clarification, we have found that no student can be in any one location more than two (2) days a month, in which case they would not be a “frequent” in-contact person in the classroom. Our experience indicates that the area school districts are implementing criminal background checks in a variety of ways. A fee is required but may vary depending upon the center, program and school district. Based upon all this information, it is the student’s responsibility as a future teacher of children in the state of Texas to understand and comply with the requirements of each institution in which they may observe and/or intern.

For further clarification, discuss any concerns or issues with your professor, counselor and/or department chair.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>TECA 1354 Child Growth and Development or CDEC 1354 Child Growth and Development</td>
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<tr>
<td>CDEC 1319 Child Guidance</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1458 Creative Arts for Early Childhood</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
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<tr>
<td>CDEC 1359 Children with Special Needs</td>
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<tr>
<td>SUBTOTAL</td>
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Second Term

<table>
<thead>
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<th>Course</th>
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<tbody>
<tr>
<td>CDEC 1356 Emergent Literacy for Early Childhood</td>
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<tr>
<td>TECA 1311 Educating Young Children or CDEC 1311 Educating Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1413 Curriculum Resources for Early Childhood Program</td>
<td>4</td>
</tr>
<tr>
<td>*Humanities or Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1323 Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
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<tr>
<td>SUBTOTAL</td>
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Third Term

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CDEC 2407 Math and Science for Early Child</td>
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<tr>
<td>TECA 1303 Family, School and Community or CDEC 1303 Family, School and Community</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1315 Public Speaking or SPCH 1318 Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1314 College Algebra or MATH 1332 College Mathematics for Liberal Arts or MATH 1333 Contemporary Mathematics for Technical Programs</td>
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</tr>
<tr>
<td>CDEC 2326 Administration of Programs for Children I</td>
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### Fourth Term

<table>
<thead>
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<tbody>
<tr>
<td>TECA 1318 Wellness of the Young Child or CDEC 1318 Wellness of the Young Child</td>
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</tr>
<tr>
<td>CDEC 2328 Administration Programs for Children II</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 2366 Practicum (or Field Experience) Child Care Provider/Assistant</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 2315 Diverse Cultural/Multilingual Education or *Behavioral or Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</tr>
</tbody>
</table>

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

**Capstone Experience:** CDEC 2366

*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 1321
- CDEC 1417
- CDEC 2336
- CDEC 2341
- CDEC 2422
- CDEC 2424
- FMLD 1353
- FMLD 1372

### Child Development/Early Childhood Education (4CHID-ECE)

**Certificate of Technology**

**Central and North Campuses**

#### First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>TECA 1354 Child Growth and Development or CDEC 1354 Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1319 Child Guidance</td>
<td>3</td>
</tr>
<tr>
<td>TECA 1311 Educating Young Children or CDEC 1311 Educating Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1413 Curriculum Resources for Early Childhood or CDEC 1413 Curriculum Resources for Early Childhood</td>
<td>4</td>
</tr>
<tr>
<td>CDEC 1356 Emergent Literacy for Early Childhood</td>
<td>3</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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#### Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECA 1318 Wellness of the Young Child or CDEC 1318 Wellness of the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 2407 Math and Science for Early Childhood</td>
<td>4</td>
</tr>
<tr>
<td>CDEC 1458 Creative Arts for Early Childhood</td>
<td>4</td>
</tr>
<tr>
<td>CDEC 2326 Administration of Programs for Children I or CDEC 2326 Administration of Programs for Children II</td>
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### Third Term

<table>
<thead>
<tr>
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<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>TECA 1303 Family, School and Community or CDEC 1303 Family, School and Community</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1323 Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1359 Children with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 2366 Practicum (or Field Experience)-Child Care Provider Assistant</td>
<td>3</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

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

**Capstone Experience:** CDEC 2366

### Child Development/Early Childhood Education Teacher Aide (4CHID-TA)

#### Certificate of Technology

**Central and North Campuses**

#### First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECA 1354 Child Growth and Development or CDEC 1354 Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1319 Child Guidance</td>
<td>3</td>
</tr>
<tr>
<td>TECA 1311 Educating Young Children or CDEC 1311 Educating Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1359 Children with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 2341 The School Age Child</td>
<td>3</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>15</strong></td>
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</tbody>
</table>

#### Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH 1315 Public Speaking or SPCH 1318 Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>TECA 1318 Wellness of the Young Child or CDEC 1318 Wellness of the Young Child</td>
<td>3</td>
</tr>
<tr>
<td>TECA 1303 Family, School and Community or CDEC 1303 Family, School and Community</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1323 Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 1301 Introduction to the Teaching Profession</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</tr>
</tbody>
</table>

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

**Capstone Experience:** CDEC 1323
Technical Programs

Child Development/Early Childhood Education Child Care Administrator's Credential (6CHID-ADM)

Occupational Certificate

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 course completion.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDEC 1417 Child Development Associate Training I</td>
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</tr>
<tr>
<td>CDEC 2422 Child Development Associate Training II</td>
<td>4</td>
</tr>
<tr>
<td>CDEC 2424 Child Development Associate Training III</td>
<td>4</td>
</tr>
<tr>
<td>CDEC 2326 Administrative Programs for Children I</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 2328 Administrative Programs for Children II</td>
<td>3</td>
</tr>
</tbody>
</table>

Occupational Certificate Total 18

Capstone Experience: CDEC 2328

Child Development/Early Childhood Education Curriculum Specialist (MCHID-CUR)

 Marketable Skills Achievement Award

Central and North Campuses

For students who have completed the administrator’s credential program, San Jacinto Community College provides an opportunity for additional professional development in the Curriculum Specialist Marketable Skills Achievement Award, which may be obtained after completion of the administrator’s credential program. Each award requires completion of four courses. Application for this award should be made in the office of Enrollment Services.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDEC 2341 The School Age Child</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1356 Emergent Literacy for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>TECA 1311 Educating Young Children or CDEC 1311 Educating Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1413 Curriculum Resources for Early Childhood Programs</td>
<td>4</td>
</tr>
</tbody>
</table>

Marketable Skills Achievement Award Total 13

Child Development/Early Childhood Education Parent/Child Specialist (MCHID-PC)

 Marketable Skills Achievement Award

Central and North Campuses

For students who have completed the administrator’s credential program, San Jacinto Community College provides an opportunity for additional professional development in the Parent/Child Specialist Marketable Skills Achievement Award, which may be obtained after completion of the administrator’s credential program. Each award requires completion of four courses. Application for this award should be made in the office of Enrollment Services.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDEC 2341 The School Age Child</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1356 Emergent Literacy for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>TECA 1311 Educating Young Children or CDEC 1311 Educating Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CDEC 1413 Curriculum Resources for Early Childhood Programs</td>
<td>4</td>
</tr>
</tbody>
</table>

Marketable Skills Achievement Award Total 13
The computer information technology (IT) curriculum prepares graduates for employment with organizations that use computers to process, manage, and communicate information. The College offers certificates and/or associate of applied science degrees in the following areas: applications programming, Web applications development, desktop support and Microsoft network administration, network administration Cisco, information technology security, and database design. Several degree specialties are available to the student based on his/her primary area of interest. In the applications programming specialty, emphasis is placed on the use of computer languages in the solution of business and scientific problems. The Web application development specialty addresses the design and development of Web pages for use on the World Wide Web. In desktop support and Microsoft network administration, a student can choose between a track with emphasis on desktop computer hardware and software support, or one with focus on the installation and maintenance of networks. In the network administration Cisco specialty, emphasis is on the design, implementation and administration of local and wide area router networks. There is also a database design certificate which emphasizes sound database design and implementation methods so that an organization’s critical data resources can be effectively utilized. This program focuses on learning basic skills which will assist them in the support and development of large database systems.

Two of the newer programs, CIT simulation and game programming and the CIT industry certification programs require students to apply for admission by contacting the department chair.

The CIT simulation and game programming certificate of technology is designed for students who are interested in advanced programming areas, as in simulations, game programming, program testing or multimedia programming.

The CIT industry certification program is intended for students with industry experience in one or more of the following areas of study: Web page design and E-commerce, beginning and advanced network administration – Microsoft, beginning and advanced network administration – Cisco, advanced information technology security, database administration, and computer hardware support. These certificates enable students to supplement their current job skills and obtain industry certifications, if desired. Each industry certification certificate consists of only the courses required to obtain a specific certification.

Note for transfer students: Due to variations in requirements at four-year colleges and universities, a student desiring a bachelor’s degree in computer science is strongly advised to consult a CIT department chair at San Jacinto College and at the institution to which they wish to transfer. This communication regarding transfer degree plans with both computer department heads will help to ensure the transition process is as smooth as possible. The field of study computer science located elsewhere in the Catalog may also be appropriate.
Core Computer Information Technology (6IT-CORE)

Occupational Certificate

All Campuses

It is recommended that students complete the following programming core occupational certificate before continuing into a programming Certificate of Technology or programming Associate of Applied Science degree.

First Term  
ITSC 1305 Introduction to PC Operating Systems .......................... 3
ITSC 1309 Integrated Software Applications .............................. 3
ITSC 1325 Personal Computer Hardware ................................... 3
ITNW 1325 Fundamentals of Networking Technologies or
   ITCC 1401 Exploration Network Fundamentals .................. 3
ITSE 1329 Programming Logic and Design or
   ITSE 1331 Introduction to Visual BASIC Programming ............ 3
ITSW 1307 Introduction to Database ....................................... 3
Occupational Certificate Total  18
Capstone Experience: ITSW 1307

Applications Programming Specialty (3IT-APPL)

Certificate of Technology

All Campuses

The Applications Programming Certificate of Technology is designed for students who desire to earn a credential after one year of study. All courses required for this certificate apply toward the Applications Programming Associate of Applied Science degree.

The following curriculum provides the student with basic application programming development skills. A common job title for this certificate is: Entry Level Programmer.

First Term  
ITSC 1305 Introduction to PC Operating Systems .......................... 3
ITSC 1309 Integrated Software Applications I ........................... 3
ITNW 1325 Fundamentals of Networking Technologies or
   ITCC 1401 Cisco Exploration 1 Networking Fundamentals ...... 3
ITSE 1329 Programming Logic & Dsgn or
   COSC 1336 Prog Fundamentals I ...................................... 3
Subtotal  12

Second Term  
ITSE 1331 Intro Visual BASIC Programming .................................. 3
ITSE 1307 Intro to C++ Programming or
   COSC 1337 Prog Fundamentals II ...................................... 3
ITSW 1307 Introduction to Database ....................................... 3
Subtotal  9

Third Term  
ITSE 2317 Java Programming ................................................... 3
ITSE 2331 Advanced C++ Prog or
   COSC 2336 Prog Fundamentals III .................................... 3
ITSC 2364 Practicum (or Field Experience) - Computer and
   Information Sciences, General or
   Approved Elective ................................................................ 3
Subtotal  9

Certificate of Technology Total  30
Capstone Experience: ITSC 2364 or ITSE 2331 or COSC 2336
Approved Electives:
IMED 1341 IMED 1345 ITCC 1404 ITNW 1392
ITNW 2352 ITNW 2354 ITSC 1391 ITSC 1319
ITSC 1391 ITSC 2321 ITSC 2337 ITSE 1345
ITSE 1391 ITSE 2305 ITSW 2334 ITSY 1342

Associate of Applied Science Degree

All Campuses

Most employers require an associate degree for an entry-level positions in this field. A common job for this degree is Entry Level Programmer.
**Second Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ITSC 1319 Internet/Web Page Development</td>
<td>3</td>
</tr>
<tr>
<td>ITSE 1307 Introduction to C++ Programming or</td>
<td>3</td>
</tr>
<tr>
<td>COSC 1337 Programming Fundamentals II</td>
<td></td>
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<tr>
<td>ITSW 1307 Introduction to Database</td>
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<td>ENGL 1301 Composition I</td>
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<td>Speech</td>
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**Third Term**

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<td>COSC 2336 Programming Fundamentals III</td>
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<td>MATH 1333 Contemporary Math for Tech or</td>
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</tr>
<tr>
<td>MATH 1314 College Algebra or</td>
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</tr>
<tr>
<td><strong>Science Elective</strong></td>
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<tr>
<td>*Humanities or Fine Arts</td>
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<tr>
<td>ENGL 2311 Technical Report Writing</td>
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**Fourth Term**

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<th>Course</th>
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<tbody>
<tr>
<td>*Behavioral or Social Sciences</td>
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<tr>
<td>ITSC 1325 Personal Computer Hardware</td>
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<td>Approved Elective</td>
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<tr>
<td>ITSE 2317 JAVA Programming</td>
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<tr>
<td>ITSC 2364 Practicum (or Field Experience) - Computer and</td>
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<td>Information Sciences, General or</td>
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<td>Approved Elective</td>
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</table>

**Capstone Experience: ITSC 2364 or ITSE 2331 or COSC 2336**

*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.

<table>
<thead>
<tr>
<th>Approved Electives</th>
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<tbody>
<tr>
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<td>BIOL 1408</td>
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<td>CHEM 1405</td>
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<td><strong>Students must be Texas Success initiative (TSI) complete in order to graduate: Math level 7.</strong></td>
<td>3</td>
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## 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 website. The Web Applications Development Certificate of Technology and the Web Applications Development Associate of Applied Science focus on programming; whereas, the Web page Design and Implementation Certificate of Technology focuses on layout and style.

### Web Applications Development

**Certificate of Technology**

**All Campuses**

The Web Applications Development Certificate of Technology is designed for students who desire to earn a credential after one year of study. All courses required for this certificate apply toward the Web Applications Development Associate of Applied Science degree. The following curriculum is designed to provide the student with basic web applications 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ITSC 1305 Introduction to PC Operating Systems</td>
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<tr>
<td>ITSC 1309 Integrated Software Applications I</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1319 Internet/Web Page Development</td>
<td>3</td>
</tr>
<tr>
<td>ITNW 1325 Fundamentals of Networking Tech or</td>
<td>3</td>
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<tr>
<td>ITCC 1401 Cisco Exploration I Network Fundamentals</td>
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**Second Term**

<table>
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<tr>
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<tbody>
<tr>
<td>ITSE 1356 Extensible Markup Language (XML)</td>
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<tr>
<td>IMED 1341 Interface Design w/ Photoshop</td>
<td>3</td>
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<tr>
<td>ITNW 1307 Introduction to Database</td>
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**Third Term**

<table>
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<tr>
<td>ITSE 2313 Web Authoring</td>
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<tr>
<td>IMED 1345 Interactive Digital Media I</td>
<td>3</td>
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<tr>
<td>ITSE 1359 Introduction to Scripting Languages</td>
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<tr>
<td>ITSC 2364 Practicum (or Field Experience) - Computer and</td>
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<td>Information Sciences, General or</td>
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**Certificate of Technology Total**

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**Capstone Experience: ITSC 2364 or ITSE 2313**

Approved Electives

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<td>Approved Elective</td>
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Web Applications Development Specialty (3IT-WBDV)

**Associate of Applied Science Degree**

**All Campuses**

The following degree is designed to provide the student with basic Web applications development skills. Common job titles for this degree include Webmaster, Web Specialist, Web Applications Developer, or Web Designer.

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ITSC 1305 Introduction to PC Operating Systems</td>
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<tr>
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<td>ITSC 1319 Internet/Web Page Development</td>
<td>3</td>
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<td>ITNW 1325 Fundamentals of Network Technology or ITCC 1401 Cisco Exploration 1 Network Fundamentals</td>
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<td>Speech</td>
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**Second Term**

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<tr>
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<td>3</td>
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<tr>
<td>ITSE 1356 Extensible Markup Language/XML</td>
<td>3</td>
</tr>
<tr>
<td>ITSW 1307 Introduction to Database</td>
<td>3</td>
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<tr>
<td>ENGL 1301 Composition I</td>
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<td>MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or <strong>Science Elective</strong></td>
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**Third Term**

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<tr>
<th>Course</th>
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<tr>
<td>IMED 1345 Interactive Digital Media I</td>
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**Fourth Term**

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<tr>
<td>ITSE 1345 Introduction to Oracle SQL or Approved Elective</td>
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<tr>
<td>*Humanities or Fine Arts</td>
<td>3</td>
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<tr>
<td>ITNW 2354 Internet/Intranet Server</td>
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<tr>
<td>ITSC 2364 Practicum (or Field Experience) - Computer and Information Sciences, General or Approved Elective</td>
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**Associate of Applied Science Degree Total**

65

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<tr>
<td>ITSE 2313 Web Authoring</td>
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<td>*Humanities or Fine Arts</td>
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**Capstone Experience: ITSC 2364 or ITSE 2313**

**Approved Electives**

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<tr>
<td>ITSY 1342</td>
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Science Elective for General Education Core

BIOL 1408 Biology I for Non-Science Majors

BIOL 1409 Biology II for Non-Science Majors

BIOL 1411 General Biology

BIOL 1413 General Zoology

CHEM 1405 Introductory Chemistry

CHEM 1411 General Chemistry

GEOL 1403 Physical Geology

**Students must be Texas Success Initiative (TSI) complete in order to graduate: Math level 7.**

Web Page Design and Implementation Specialty (4IT-WBDI)

**Certificate of Technology**

**All Campuses**

The following trans-departmental curriculum between computer information technology and art 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**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ITSC 1319 Internet/Web Page Development</td>
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<tr>
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<tr>
<td>IMED 1301 Introduction to Digital Media</td>
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<td>ARTC 1325 Introduction to Computer Graphics</td>
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**Approved Electives**

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<tr>
<td>ITNW 2354 Internet/Intranet Server</td>
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<td>ITSE 2313 Web Authoring</td>
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</tr>
<tr>
<td>ITSE 1345 Introduction to Oracle SQL or Approved Elective</td>
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<tr>
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<td>3</td>
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<tr>
<td>ITNW 2354 Internet/Intranet Server</td>
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<tr>
<td>ITSC 2364 Practicum (or Field Experience) - Computer and Information Sciences, General or Approved Elective</td>
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**Capstone Experience: ITSC 2364 or ITSE 2313**

**Approved Electives**

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<td>ITSY 1342</td>
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Science Elective for General Education Core

BIOL 1408 Biology I for Non-Science Majors

BIOL 1409 Biology II for Non-Science Majors

BIOL 1411 General Biology

BIOL 1413 General Zoology

CHEM 1405 Introductory Chemistry

CHEM 1411 General Chemistry

GEOL 1403 Physical Geology

**Students must be Texas Success Initiative (TSI) complete in order to graduate: Math level 7.**
Desktop Support and Microsoft Network Administration Specialty (4IT-DSMN)

Certificate of Technology
All Campuses

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ITSC 1305 Introduction to PC Operating Systems</td>
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<tr>
<td>ITSC 1319 Integrated Software Applications I</td>
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<td>ITNW 1325 Fundamentals of Networking Technologies or ITCC 1401 Cisco Exploration 1 - Network Fundamentals</td>
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<tr>
<td>ITSE 1329 Programming Logic and Design or ITSE 1331 Introduction to Visual Basic Programming</td>
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SUBTOTAL: 12

Second Term

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<td>ITNW 1342 Information Technology Security</td>
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<td>ITNW 2301 Intermediate PC Operating Systems</td>
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SUBTOTAL: 12

Third Term

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<th>Course</th>
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<tbody>
<tr>
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<tr>
<td>ITSY 1342 Information Technology Security</td>
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<td>ITSC 1321 Intermediate PC Operating Systems</td>
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SUBTOTAL: 12

Certificate of Technology Total: 36

Capstone Experience: ITSC 2364 or ITNW 2354

Approved Electives

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</table>

Desktop Support and Microsoft Network Administration

All Campuses

The desktop support curriculum is designed to provide students with skills in desktop computer hardware and software support, and prepare for exams leading to industry certifications such as A+, Net+, and Microsoft Office Specialist (MOS). Students will learn to install, maintain, repair, replace and upgrade desktop computers. Common job titles for this certificate include: Desktop Support Specialist, Helpdesk Support, and PC Technician.

The Microsoft network administration curriculum is designed to provide students with basic skills needed to work as Microsoft computer network service technicians. Emphasis is placed upon the installation and maintenance of networks. A graduate will be able to administer and troubleshoot data and communication networks. These courses can lead to the Microsoft Certified Professional (MCP), and/or Microsoft Certified Systems Engineer (MCSE), Net+, and Server+ certifications. Common job titles for this certificate include network technician, network administrator, server administrator, and network operations specialist.
Desktop Support and Microsoft Network Administration Specialty (3IT-DSMN)

**Associate of Applied Science Degree**

*All Campuses*

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ITSC 1305 Introduction to PC Operating Systems</td>
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<td>ITSC 1309 Integrated Software Applications I</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1325 Personal Computer Hardware</td>
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</tr>
<tr>
<td>ITNW 1325 - Fundamentals of Networking Technologies or ITCC 1401 Cisco Exploration 1 - Network Fundamentals</td>
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</tr>
<tr>
<td>Speech</td>
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<td>Physical Education Activity</td>
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<td><strong>SUBTOTAL</strong></td>
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<table>
<thead>
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<tbody>
<tr>
<td>ITSC 1321 Intermediate PC Operating Systems</td>
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</tr>
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<td>ITSE 1329 Programming Logic and Design or ITSE 1331 Introduction to Visual Basic Programming</td>
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<tr>
<td>ITNW 1354 Implementing and Supporting Servers</td>
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<td>MATH 1333 College Mathematics for Technical Programs or MATH 1314 College Algebra or <strong>Science Elective</strong></td>
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<td>ITSY 1342 Information Technology Security</td>
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<td>ITSC 2339 Personal Computer Help Desk Support</td>
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<th>Credit</th>
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<tbody>
<tr>
<td>ITSY 2300 Operating System Security</td>
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<tr>
<td>ITNW 2354 Internet/Intranet Server</td>
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<td>*Behavioral or Social Science</td>
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<td>*Humanities or Fine Arts</td>
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<tr>
<td>Practicum (or Field Experience) Computer and Information Sciences, General or Approved Elective</td>
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**Capstone Experience:** ITSC 2364 or ITNW 2354

*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**

CPMT 2302  EECT 1307  EECT 2337  IMED 1341
IMED 1345  ITCC 1308  ITCC 1404  ITNW 1345
ITNW 1392  ITNW 2352  ITSC 1319  ITSC 1391
ITSC 2321  ITSE 1307  ITSE 1345  ITSE 1391
ITSW 2334

**Science Elective for General Education Core**

BIOL 1408  BIOL 1409  BIOL 1411  BIOL 1413
CHEM 1405  CHEM 1411  GEOL 1403

**Students must be Texas Success Initiative (TSI) complete in order to graduate:** Math level 7.

**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. The Cisco courses can lead to the certifications of Certified Cisco Network Associate (CCNA), Certified Cisco Network Professional (CCNP), and Comptia Net+. Common job titles for graduates of the certificate and/or degree include network technician, Cisco service representative, technical support specialist, and network system administration.
**Network Administration CISCO Specialty (4IT-NW-C)**

**Certificate of Technology**

*All Campuses*

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ITSC 1305 Introduction to PC Operating Systems</td>
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<tr>
<td>ITSC 1309 Integrated Software Applications I</td>
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</tr>
<tr>
<td>ITCC 1401 Cisco Exploration 1 - Network Fundamentals</td>
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<td>ITSC 1325 Personal Computer Hardware</td>
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<td>ITSE 1329 Programming Logic and Design or ITSE 1331 Introduction to Visual Basic Programming</td>
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<tr>
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<td>ITSC 1307 Introduction to Database</td>
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<td>ITNW 1354 Implementing and Supporting Servers</td>
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<td>ITSY 1342 Information Technology Security</td>
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<td>ENGL 2311 Technical Report Writing</td>
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<td>ITSC 2364 Practicum (or Field Experience) or Approved Elective</td>
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<tr>
<td>MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or <strong>Science Elective</strong></td>
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| **Certificate of Technology Total** | **37** |
| **Capstone Experience: ITCC 2410** |        |
| Approved Electives: CPMT 2302 ITNW 1353 ITSC 2364 EECT 1307 ITNW 1392 ITSE 1329 EECT 2337 ITSC 1319 ITSE 1331 ITCC 1308 ITSC 1321 ITSY 1342 ITNW 1345 ITSC 1391 ITSY 2300 |

**Network Administration CISCO Specialty (3IT-NW-C)**

**Associate of Applied Science Degree**

*All Campuses*

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<th>First Term</th>
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<tbody>
<tr>
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<tr>
<td>ITCC 1404 Cisco Exploration 2 - Routing Protocols and Concepts</td>
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| **Associate of Applied Science Degree Total** | **63** |
| **Capstone Experience: ITCC 2364 or ITCC 2410** |        |

*Students must be Texas Success Initiative (TSI) complete in order to graduate: Math Level 7*

*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:**

- CPMT 2302 ITNW 1392 ITSC 2337 EECT 1307
- ITCC 1307 ITSE 1307 EECT 2337 ITSC 1319
- ITSE 1331 ITCC 1308 ITSC 1321 ITSY 1342
- ITNW 1345 ITSC 1391 ITSY 2300

Science Elective for General Education Core:

- BIOL 1408 BIOL 1409 BIOL 1411 BIOL 1413
- CHEM 1405 CHEM 1411 GEOL 1403
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.

### Information Technology Security (4IT-ITS)

#### Certificate of Technology

**All Campuses**

<table>
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<tr>
<th>First Term</th>
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<tbody>
<tr>
<td>ITSC 1305 Introduction to PC Operating Systems</td>
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<tr>
<td>ITSY 2301 Firewalls and Network Security</td>
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<td>ITSY 2341 Security Management Practices</td>
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**Certificate of Technology Total** 33

**Capstone Experience:** ITSY 2341

Approved Electives:

- ITNW 1345
- ITSC 2321
- ITNW 1353
- ITSC 2337
- ITNW 1392
- ITSE 1307
- ITSC 1319
- ITSE 1331
- ITSC 1321
- ITSE 1345
- ITSC 1391
- ITSE 1391
- ITCW 2334

### Information Technology Security (3IT-ITS)

#### Associate of Applied Science Degree

**All Campuses**

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<tr>
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<tr>
<td>ITSC 1307 UNIX Operating System I</td>
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<td>ITSY 2300 Operating System Security</td>
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<tr>
<td>ITNW 1354 Implementing and Supporting Servers</td>
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<td>ITSY 2301 Firewalls and Network Security</td>
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<tr>
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<td>ITSY 2343 Computer System Forensics</td>
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**Associate of Applied Science Degree Total** 62

**Capstone Experience:** ITSY 2359

*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.*

**Students must be Texas Success Initiative (TSI) complete in order to graduate: Math level 7.**
Database Design

All Campuses

With this certificate of technology, graduates can work in the expanding and exciting database field to analyze, design, implement or maintain large industrial database systems. Common job titles include Information Database Administrator, Database Developer, Database Designer, and Database Programmer.

Certificate of Technology

All Campuses

**First Term**

- ITSC 1305 Introduction to PC Operating Systems ........................................ 3
- ITSC 1309 Integrated Software Applications I .............................................. 3
- ITNW 1325 Fundamentals of Networking Technologies or
  ITCC 1401 Cisco Exploration I - Network Fundamentals .................. 3
- ITSE 1329 Programming Logic and Design or
  ITSE 1331 Introduction to Visual Basic programming .......................... 3
- ITSW 1307 Introduction to Database .......................................................... 3

**SUBTOTAL** 15

**Second Term**

- ITSC 1319 Internet/Web Page Development ............................................. 3
- ITNW 1354 Implementing and Supporting Servers .................................. 3
- ITSW 2337 Advanced Database ............................................................... 3
- ITSY 1342 Information Technology Security .......................................... 3

**SUBTOTAL** 12

**Third Term**

- ITSE 1345 Introduction to Oracle SQL .................................................... 3
- ITNW 2354 Internet/Intranet Server ......................................................... 3
- ITSE 2309 Database Programming ............................................................ 3
- ITSC 2364 Practicum (or Field Experience) Computer and
  Information Sciences, General or
  Approved Elective .................................................................................. 3

**SUBTOTAL** 12

**Certificate of Technology Total** 39

Capstone Experience: ITSC 2364 or ITSE 2309

Approved Electives:
- ITSC 1307
- ITSC 2339

Simulation and Game Programming Certificate Program

All Campuses

Students must apply for admission to this program by contacting the department chair and verifying that they have the appropriate interest and drive to succeed in this program’s certificates.

The CIT simulation and game programming certificate program is designed for students who are interested in advanced programming areas, as in simulations, game programming, program testing and/or multimedia programming.

**Introductory Game Design and Development (6IT-GAME)**

Occupational Certificate

All Campuses

**First Term**

- COSC 1336 Programming Fundamentals I or
  ITSE 1329 Programming Logic and Design ........................................ 3
- GAME 1304 Level Design ....................................................................... 3
- GAME 1303 Introduction to Game Design and Development .................. 3

**SUBTOTAL** 9

**Second Term**

- COSC 1337 Programming Fundamentals II or
  ITSE 1307 Introduction to C++ Programming ...................................... 3
- Approved Elective .................................................................................... 3
- INEW 2340 Object Oriented Design - Game Design .............................. 3

**SUBTOTAL** 9

**Occupational Certificate Total** 18

Capstone Experience: INEW 2340

Approved Electives:
- IMED 1341
- ITSC 1319
- ITSE 1331
- MATH 1314
Simulation and Game Design (4IT-GAMS)

**Certificate of Technology**

**All Campuses**

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<tr>
<td>COSC 1336 Programming Fundamentals I or ITSE 1329 Programming Logic and Design</td>
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<td>GAME 1304 Level Design</td>
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<td>GAME 1303 Introduction to Game Design and Development</td>
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<td>GAME 2332 Project Development I</td>
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<td>INEW 2340 Object Oriented Design - Game Design</td>
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<tr>
<td>GAME 2341 Game Scripting</td>
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Certificate of Technology Total 42

Capstone Experience: GAME 2359

Approved Electives:
- GAME 2344
- IMED 1341
- IMED 1345
- ITSC 1319
- ITSE 1331
- ITSE 2317
- MATH 1314

Beginning Network Administration CIISCO Specialty (6IT-BC)

**Occupational Certificate**

**All Campuses**

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Capstone Experience: ITCC 2410

Advanced Information Technology Security (6IT-AITS)

**Occupational Certificate**

**All Campuses**

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<tr>
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<td>ITSY 2341 Security Management Practices</td>
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<tr>
<td>ITSY 2342 Incident Response and Handling</td>
<td>3</td>
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<td>ITSY 2343 Computer System Forensics</td>
<td>3</td>
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<td>ITSY 2359 Security Assessment and Auditing</td>
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Occupational Certificate Total 18

Capstone Experience: ITSY 2359

Computer Hardware Support (6IT-CHS)

**Occupational Certificate**

**All Campuses**

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<td>ITNW 1325 Fundamentals of Networking Technologies or ITCC 1401 Cisco Exploration 1 - Network Fundamentals</td>
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<tr>
<td>ITSC 1321 Intermediate PC Operating Systems</td>
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<td><strong>Occupational Certificate Total</strong></td>
<td>15</td>
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</table>

Capstone Experience: ITSC 1321

The CIT industry certification program is intended for students with industry experience in one or more of the following areas of study: Web page design and E-commerce, beginning and advanced network administration - Microsoft, beginning and advanced network administration – Cisco, advanced information technology security, database administration, and computer hardware support. These certificates enable students to supplement their current job skills and obtain industry certifications, if desired. Each industry certification certificate consists of only the courses required to obtain a specific certification.
Construction Management Technology

Construction Management Technology (3CSTR-MGMT)

Associate of Applied Science Degree

North Campus

The purpose for the Construction Management Program is to prepare graduates in the field of commercial and industrial construction management. Graduates will assist in the planning, direction, and coordination of activities concerned with the construction and maintenance of commercial and industrial structures and facilities. They will participate in the conceptual development and organization of a construction project, pricing and procurement, scheduling and the overseeing of its organization, estimating, scheduling, and the implementation of the project. This includes material familiarization, specialized construction fields such as civil, carpentry, mechanical and piping and plumbing systems, electrical/electronic, building envelopes, legal contracts, codes, permit processes through state and local identities with an understanding of the green elements of each.

The program will also prepare students to sit for the OSHA 10-hour certification exam and the U.S. Green Building Council LEED (Leadership in Energy and Environmental Design) Green Associate Certification Exam.

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ITSC 1309 Applications I or BCIS 1305 Business Computer Applications</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</table>

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNBT 1210 Basic Construction Safety</td>
<td>2</td>
</tr>
<tr>
<td>CNBT 1311 Construction Methods and Materials I</td>
<td>3</td>
</tr>
<tr>
<td>CNBT 2310 Commercial/Industrial Blueprint Reading</td>
<td>3</td>
</tr>
<tr>
<td>CNBT 2342 Construction Management I</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
</tr>
<tr>
<td>Math 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
<td>3</td>
</tr>
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<td><strong>SUBTOTAL</strong></td>
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<table>
<thead>
<tr>
<th>Second Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CNBT 2317 Green Building</td>
<td>3</td>
</tr>
<tr>
<td>CNBT 2315 Construction Specifications and Contracts</td>
<td>3</td>
</tr>
<tr>
<td>CNBT 1446 Construction Estimating I</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
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<table>
<thead>
<tr>
<th>Third Term</th>
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<tbody>
<tr>
<td>CNBT 2435 Computer-Aided Construction Scheduling</td>
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</tr>
<tr>
<td>CNBT 2440 Mechanical, Plumbing and Electrical Systems in Construction II</td>
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<tr>
<td>CNBT 1171 Green Building II</td>
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</tr>
<tr>
<td>CNBT 1442 Building Codes and Inspections</td>
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</tr>
<tr>
<td>CNBT 2366 Practicum (Field Experience)-Construction Engineering Technology or CNBT 2344 Construction Management II</td>
<td>3</td>
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<td><strong>SUBTOTAL</strong></td>
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<table>
<thead>
<tr>
<th>Fourth Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>*Humanities/Fine Arts-Visual/Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>*Behavioral/Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2311 Technical Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>BMGT 1301 Supervision</td>
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<td><strong>SUBTOTAL</strong></td>
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</table>

Associate of Applied Science Degree Total | 63 |

**Capstone Experience:** CNBT 2366 or CNBT 2344

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

Construction Management Technology (4CSTR-MGMT)

Certificate of Technology

North Campus

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNBT 1210 Basic Construction Safety</td>
<td>2</td>
</tr>
<tr>
<td>CNBT 1311 Const. Methods and Materials I</td>
<td>3</td>
</tr>
<tr>
<td>CNBT 2310 Commercial/Industrial Blueprint Reading</td>
<td>3</td>
</tr>
<tr>
<td>CNBT 2342 Construction Management I</td>
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<table>
<thead>
<tr>
<th>Second Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CNBT 2317 Green Building</td>
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<tr>
<td>CNBT 1446 Construction Estimating I</td>
<td>4</td>
</tr>
<tr>
<td>CNBT 2315 Construction Specifications and Contracts</td>
<td>3</td>
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<tr>
<td>CNBT 1442 Building Codes and Inspections</td>
<td>4</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</table>
Cosmetology

Cosmetology Operator (3COSM-OP)

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSME 1310 Introduction to Haircutting Related Theory</td>
<td>3</td>
</tr>
<tr>
<td>CSME 1354 Artistry of Hair Design I</td>
<td>3</td>
</tr>
<tr>
<td>CSME 1501 Orientation to Cosmetology or CSME 1505 Fundamentals of Cosmetology</td>
<td>5</td>
</tr>
<tr>
<td>CSME 1553 Chemical Reformation and Related Theory</td>
<td>5</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>16</strong></td>
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Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>CSME 1248 Principles of Skin Care</td>
<td>2</td>
</tr>
<tr>
<td>CSME 1355 Artistry of Hair Design II</td>
<td>3</td>
</tr>
<tr>
<td>CSME 2310 Advanced Haircutting and Related Theory</td>
<td>3</td>
</tr>
<tr>
<td>CSME 2344 Preparation for the State Licensing Written Exam</td>
<td>3</td>
</tr>
<tr>
<td>CSME 2501 Principles of Hair Coloring and Related Theory</td>
<td>5</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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PostY1Summer

<table>
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<tr>
<td>CSME 2245 Preparation for the State Licensing Practical Exam</td>
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<td>CSME 2343 Salon Development</td>
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<td>CSME 2539 Advanced Hair Design</td>
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Third Term

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<tbody>
<tr>
<td>PHED Activity</td>
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</tr>
<tr>
<td>BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I</td>
<td>3</td>
</tr>
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<td>ENGL 1301 Composition I</td>
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<td><strong>SUBTOTAL</strong></td>
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Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>MATH 1333 Contemporary Mathematics for Technical Programs</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>*Humanities or Fine Arts</td>
<td>3</td>
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<tr>
<td>*Behavioral or Social Sciences</td>
<td>3</td>
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<td>PHED Activity</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</tbody>
</table>

Certificate of Technology Total 62

Verification of Workplace Competencies; Credentialing Exam: Texas Department of Licensing and Regulations 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 (4COSM-OP)

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSME 1310 Introduction to Haircutting Related Theory</td>
<td>3</td>
</tr>
<tr>
<td>CSME 1354 Artistry of Hair Design I</td>
<td>3</td>
</tr>
<tr>
<td>CSME 1501 Orientation to Cosmetology or CSME 1505 Fundamentals of Cosmetology</td>
<td>5</td>
</tr>
<tr>
<td>CSME 1553 Chemical Reformation and Related Theory</td>
<td>5</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>16</strong></td>
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</tbody>
</table>

Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSME 1248 Principles of Skin Care</td>
<td>2</td>
</tr>
<tr>
<td>CSME 2310 Advanced Haircutting and Related Theory</td>
<td>3</td>
</tr>
<tr>
<td>CSME 2501 Principles of Hair Coloring and Related Theory</td>
<td>5</td>
</tr>
<tr>
<td>CSME 1355 Artistry of Hair Design II</td>
<td>3</td>
</tr>
<tr>
<td>CSME 2337 Advanced Cosmetology Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CSME 2344 Preparation for State Licensing Written Exam</td>
<td>3</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>
Cosmetology High School Operator Dual Credit (4COSM-OPHS)

Certificate of Technology

All Campuses

The cosmetology high school operator dual 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>CSME 1310 Introduction to Haircutting Related Theory</td>
<td>3</td>
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<tr>
<td>CSME 1505 Fundamentals of Cosmetology</td>
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Second Term

<table>
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<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CSME 1553 Chemical Reformation and Related Theory</td>
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<tr>
<td>CSME 1354 Artistry of Hair Design I</td>
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<td><strong>SUBTOTAL</strong></td>
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Third Term

<table>
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<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CSME 1355 Artistry of Hair Design II</td>
<td>3</td>
</tr>
<tr>
<td>CSME 2501 Principles of Hair Coloring and Related Theory</td>
<td>5</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
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Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CSME 2541 Preparation for the State Licensing Written Exam</td>
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<tr>
<td>CSME 2310 Intermediate Haircutting and Related Theory</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</tbody>
</table>

Certificate of Technology Total 32

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

Cosmetology Instructor (3COSM-INST)

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CSME 1435 Orientation to Cosmetology</td>
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<tr>
<td>CSME 1534 Cosmetology Instructor I</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
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<tr>
<td>BUSG 2309 Small Business Management</td>
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<td><strong>SUBTOTAL</strong></td>
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Second Term

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<th>Course</th>
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<tbody>
<tr>
<td>CSME 2414 Cosmetology Instructor II</td>
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<tr>
<td>CSME 2515 Cosmetology Instructor III</td>
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<tr>
<td>HRPO 1311 Human Relations or</td>
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<td>Approved Elective</td>
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<tr>
<td>ENGL 1302 Composition II or</td>
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<tr>
<td>ENGL 2311 Technical Report Writing</td>
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<td>PHED Activity</td>
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<td><strong>SUBTOTAL</strong></td>
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Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CSME 2445 Instructional Theory and Clinic Operations</td>
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<tr>
<td>CSME 2544 Cosmetology Instructor IV</td>
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<tr>
<td>BCIS 1305 Business Computer Applications or</td>
<td>3</td>
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<tr>
<td>ITSC 1309 Integrated Software Applications I</td>
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</tr>
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<td>PHED Activity</td>
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<td><strong>SUBTOTAL</strong></td>
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Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>*Behavioral or Social Sciences</td>
<td>3</td>
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<td>*Humanities or Fine Arts</td>
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<td>Approved Elective</td>
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<td>Approved Elective</td>
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SUBTOTAL: 15

Associate of Applied Science Degree Total: 62

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

Certificate of Technology

Cosmetology Instructor (4COSM-INST)

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 of work experience is preferred.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CSME 1435 Orientation to Cosmetology</td>
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<td>CSME 1534 Cosmetology Instructor I</td>
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SUBTOTAL: 9

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<td>4</td>
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<tr>
<td>CSME 2515 Cosmetology Instructor III</td>
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SUBTOTAL: 9

Third Term

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<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>CSME 2445 Instructional Theory and Clinic Operations</td>
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<tr>
<td>CSME 2544 Cosmetology Instructor IV</td>
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</tbody>
</table>

SUBTOTAL: 9

Certificate of Technology Total: 27

Capstone Experience: Texas Department of Licensing and Regulations Instructor Licensure Examination

Facial Specialist (4COSM-FAC)

Certificate of Technology

North Campus

The Facial Specialist Certificate of Technology is designed to prepare the student with the skills and knowledge required for an entry level position in the facial/esthetics profession. After completion of CSME 1421, CSME 1520, CSME 1545, CSME 1302, CSME 2333, CSME 2431, the student is eligible to take the Texas Department of Licensing and Regulations Facial Esthetics Specialty examination, provided the 768-clock hour requirement has been met.

First Term

<table>
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<th>Course</th>
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<tbody>
<tr>
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<td>CSME 1421 Principles of Facial and Skin Care Technology I</td>
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<td>CSME 1302 Applications of Facial and Skin Care Technology I</td>
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SUBTOTAL: 12

Second Term

<table>
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<tbody>
<tr>
<td>CSME 1545 Principles of Facial and Skin Care Technology II</td>
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</tr>
<tr>
<td>CSME 2431 Principles of Skin Care Technology III</td>
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</tr>
<tr>
<td>CSME 2333 Applications of Facial and Skin Care Technology II</td>
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</table>

SUBTOTAL: 12

Certificate of Technology Total: 24

Capstone Experience: Texas Department of Licensing and Regulations Facial Licensure Exam

Massage Therapy (4MASG-THPY)

Certificate of Technology

Central Campus

The Massage Therapy Certificate of Technology is a course of study designed to meet the needs of those students desiring to enter the massage therapy profession. Our program prepares students with the technical knowledge, lab skills, and hands-on training to successfully complete a national licensing exam and gain licensure from the State of Texas as a Licensed Massage Therapist. Full-time students can earn the certificate of technology in two semesters. All key aspects of the massage therapy profession are addressed. Applicants must agree to be screened for criminal history as required by the Texas Department of State Health Services.
First Term Credit
MSSG 1109 Health and Hygiene ........................................... 1
MSSG 1411 Massage Therapy Fundamentals I ...................... 4
MSSG 1413 Anatomy and Physiology for Massage ............... 4
MSSG 1207 Business Practices and Professional Ethics .......... 2
MSSG 1105 Hydrotherapy/Therapeutic Modalities ............... 1
SUBTOTAL 12

Second Term Credit
MSSG 2413 Kinesiology for Massage ................................. 4
MSSG 2311 Massage Therapy Fundamentals II ..................... 3
MSSG 2314 Pathology for Massage ..................................... 3
MSSG 2101 Chair Massage .................................................. 1
MSSG 2186 Internship-Massage Therapy/Therapeutic Massage ... 1
SUBTOTAL 12
Certificate of Technology Total 24
Credential Exam: Texas Department of State Health Services Massage Therapy Registration State Written Examination

Nail Technician (6COSM-NAI)

Occupational Certificate

Central Campus

The nail technician occupational certificate program is designed to provide the student with the basic manicuring skills and knowledge required to pass the Texas Department of Licensing and Regulations Examination for licensing and to gain entry-level employment in a professional salon. Emphasis is on the application of all learned skills and theoretical knowledge in a simulated salon. All key aspects of the nail profession are addressed.

First Term Credit
CSME 1330 Orientation to Nail Technology ........................... 3
CSME 1531 Principles of Nail Technology I ......................... 5
CSME 1541 Principles of Nail Technology II ....................... 5
CSME 2430 Nail Enhancement ........................................... 4
Occupational Certificate Total 17
Capstone Experience: Texas Department of Licensing and Regulations Manicurist Licensure Exam

Hair Weaving and Braiding (MCOSM-HWV)

Marketable Skills Achievement Award

North Campus

The hair weaving and braiding marketable skills achievement award program is designed to prepare the student with the skill and knowledge required for performing hair weaving and braiding services. After completion of CSME 1457 and CSME 1552 the student is eligible to take the Texas Department of Licensing and Regulations Hair Weaving and Braiding Specialty Examination, provided the 300-clock-hour requirement has been met. Students must complete all course in a certificate program and make a grade of C or better in each course. Application for these should be made in the office of Enrollment Services.

First Term Credit
CSME 1457 Application of Hair Weaving and Braiding ................ 4
CSME 1552 Orientation to Hair Weaving and Braiding ................ 5
Marketable Skills Achievement Award Total 9
Capstone Experience: Texas Department of Licensing and Regulations Hair Weaving/Braiding Specialist Exam

Criminal Justice

Associate of Arts Degree

University Transfer Plan

Central and North Campuses

Students who will pursue a four-year degree at a university should enroll in the associate of arts (A.A.) degree plan for a maximum of transferable credit. The A.A. is a 61-credit hour program, which may include the following courses in the major:

Criminal Justice (15 semester hours)
CRJ 1301  CRJ 1306  CRJ 1310  CRJ 2313
CRJ 2328 Approved Electives (6 semester hours)
Approved Electives
CRJ 1307  CRJ 1313  CRJ 2314  CRJ 2323
CRJ 2301

All students considering transfer should consult with a counselor regarding the specific requirements of various universities for this major.
### Law Enforcement Option (3CRIJ-LE)  

**Associate of Applied Science Degree**  
**Central and North Campuses**

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:

- Successfully completed an approved 560-hour law enforcement training program.
- Successfully passed the Texas Commission on Law Enforcement Officers Standards and Education (TCLEOSE) licensing exam after 1983.
- 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.

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.

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CRIJ 1301 Introduction to Criminal Justice or CJSA 1322 Introduction to Criminal Justice</td>
<td>3</td>
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<tr>
<td>CRIJ 2313 Correctional Systems and Practices or CJCR 1307 Correctional Systems and Practices</td>
<td>3</td>
</tr>
<tr>
<td>CRIJ 2314 Criminal Investigation or CJS 1342 Criminal Investigation</td>
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<tr>
<td>ENGL 1301 Composition I</td>
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</tr>
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<td>Approved Elective</td>
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<td>PHED Activity</td>
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<table>
<thead>
<tr>
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<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>CRIJ 1307 Crime in America or CJS 1312 Crime in America</td>
<td>3</td>
</tr>
<tr>
<td>Approved Elective</td>
<td>3</td>
</tr>
<tr>
<td>CJLE 1333 Traffic Law and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
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<tr>
<td>PSYC 2301 General Psychology</td>
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<td>PHED Activity</td>
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<table>
<thead>
<tr>
<th>Third Term</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>*Humanities or Fine Arts</td>
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</tr>
<tr>
<td>CRIJ 1306 Court Systems and Practices or CJSA 1313 Court Systems and Practices</td>
<td>3</td>
</tr>
<tr>
<td>CRIJ 1310 Fundamentals of Criminal Law or CJS 1327 Fundamentals of Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 1301 Introduction to Sociology</td>
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</tr>
<tr>
<td>ENGL 2311 Technical Report Writing</td>
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<table>
<thead>
<tr>
<th>Fourth Term</th>
<th>Credit</th>
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<td>CRIJ 2328 Police Systems and Practices or CJS 1359 Police Systems and Practices</td>
<td>3</td>
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<tr>
<td>Approved Elective</td>
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</tr>
<tr>
<td>BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I</td>
<td>3</td>
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<td>MATH 1314 College Algebra or MATH 1333 Contemporary Mathematics for Technical Programs</td>
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**Associate of Applied Science Degree Total** 62

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

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<tr>
<td>CJLE 1327 CJSA 1308 CJS 1348 CJS 1351</td>
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<tr>
<td>CJS 2364 CJS 2388 CRIJ 1313/CJSA 1317</td>
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<td>EMSP 1305 PSYC 2319 SPAN 1411</td>
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</table>

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

### Core Criminal Justice (4CRIJ-CORE)

**Certificate of Technology**  
**Central and North Campuses**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CRIJ 1301 Introduction to Criminal Justice</td>
<td>3</td>
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<tr>
<td>CRIJ 1306 Court Systems and Practices</td>
<td>3</td>
</tr>
<tr>
<td>CRIJ 1310 Fundamentals of Criminal Law</td>
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<tr>
<td>Approved Elective</td>
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<td>Approved Elective</td>
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<tr>
<td>CRIJ 2313 Correctional Systems and Practices</td>
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<tr>
<td>CRIJ 2328 Police Systems and Practices</td>
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**Capstone Experience:** CRIJ 2313 or CRIJ 2328

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<th>Approved Electives</th>
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<tr>
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*Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.*
Law Enforcement Option (4CRIJ-LE)

Certificate of Technology
Central and North Campuses

First Term

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CRIJ 1301 Introduction to Criminal Justice or CJA 1322 Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRIJ 1306 Court Systems and Practices or CJA 1313 Court Systems and Practices</td>
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</tr>
<tr>
<td>CJS 1351 Use of Force</td>
<td>3</td>
</tr>
<tr>
<td>CRIJ 2328 Police Systems and Practices or CJA 1359 Police System and Practices</td>
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<td>CJLE 1327 Interviewing and Report Writing for Criminal Justice Professions</td>
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SUBTOTAL 18

Second Term

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<th>Course</th>
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<tr>
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<td>CJLE 1333 Traffic Law and Investigations</td>
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<tr>
<td>CJS 1348 Ethics in Criminal Justice</td>
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</tr>
<tr>
<td>CRIJ 1310 Fundamentals of Criminal Law or CJA 1327 Fundamentals of Criminal Law</td>
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SUBTOTAL 15

Certificate of Technology Total 33

Capstone Experience: CRIJ 2323/CJA 2300

Approved Electives

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<tr>
<td>CJS 1308 CJA 2364 CJA 2388 CRIJ 1307/CJA 1312 CRIJ 1313/CJA 1317 CRIJ 2313/CJCR 1307 EMSP 1305 SPAN 1411</td>
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Social Services and Corrections Option (3CRIJ-SS)

Associate of Applied Science Degree
Central and North Campuses

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CRIJ 1301 Introduction to Criminal Justice or CJA 1322 Introduction to Criminal Justice</td>
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<tr>
<td>CJCR 1307 Correctional Systems and Practices or CRIJ 2313 Correctional Systems and Practices</td>
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<tr>
<td>CRIJ 2314 Criminal Investigation or CJA 1342 Criminal Investigation</td>
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<tr>
<td>ENGL 1301 Composition I</td>
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<tr>
<td>BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I</td>
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SUBTOTAL 16

Second Term

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<tr>
<td>CRIJ 1307 Crime in America or CJA 1312 Crime in America</td>
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<tr>
<td>CRIJ 2301 Community Resources in Corrections or CJCR 1304 Probation and Parole</td>
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<td>CRIJ 1313 Juvenile Justice System or CJA 1317 Juvenile Justice System</td>
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<td>Speech</td>
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<tr>
<td>PSYC 2301 General Psychology</td>
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<td>PHED Activity</td>
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SUBTOTAL 16

Third Term

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<tr>
<td>CRIJ 1306 Court Systems and Practices or CJA 1313 Court Systems and Practices</td>
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<tr>
<td>CJCR 1310 Fundamentals of Criminal Law or CJA 1327 Fundamentals of Criminal Law</td>
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</tr>
<tr>
<td>SOCI 1301 Introduction to Sociology</td>
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<td>ENGL 2311 Technical Report Writing</td>
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SUBTOTAL 15

Fourth Term

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CRIJ 2328 Police Systems and Practices or CJA 1359 Police Systems and Practices</td>
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<td>CJCR 2325 Legal Aspects of Corrections</td>
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<td>Approved Elective</td>
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<tr>
<td>MATH 1314 College Algebra or MATH 1333 Contemporary Mathematics for Technical Programs</td>
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SUBTOTAL 15

Associate of Applied Science Degree Total 62

Capstone Experience: CJCR 2325

Approved Electives

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<tr>
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<tbody>
<tr>
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</table>

* Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.
Social Services Option (4CRIJ-SS)

Certificate of Technology

Central and North Campuses

First Term

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CRIJ 1301 Introduction to Criminal Justice or CJS 1322 Court Systems and Practices</td>
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<tr>
<td>CRIJ 1306 Court Systems and Practices or CJS 1313 Court Systems and Practices</td>
<td>3</td>
</tr>
<tr>
<td>CRIJ 2328 Police Systems and Practices or CJS 1359 Police Systems and Practices</td>
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<tr>
<td>CRIJ 2323 Legal Aspects of Law Enforcement or CJS 2300 Legal Aspects of Law Enforcement</td>
<td>3</td>
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<tr>
<td>CRIJ 2301 Community Resources in Corrections or CJS 2301 Juvenile Justice System</td>
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Second Term

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CRIJ 1307 Crime in America or CJS 1312 Crime in America</td>
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<tr>
<td>CRIJ 1310 Fundamentals of Criminal Law or CJS 1327 Fundamentals of Criminal Law</td>
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<td>Approved Elective</td>
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<tr>
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<td>CJLE 1327 Interviewing and Report Writing for Criminal Justice Professions</td>
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Certificate of Technology Total | 33      |

Capstone Experience: CJS 2304/CJS 2306

Approved Electives

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<tr>
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<td>PSYC 2319 SPAN 1411</td>
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Corrections Option (4CRIJ-CORR)

Certificate of Technology

Central and North Campuses

First Term

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<tr>
<th>Course</th>
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<tr>
<td>CRIJ 1301 Introduction to Criminal Justice or CJS 1322 Court Systems and Practices</td>
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<tr>
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Second Term

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<tr>
<td>CRIJ 1307 Crime in America or CJS 1312 Crime in America</td>
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<tr>
<td>CRIJ 1306 Court Systems and Practices or CJS 1313 Court Systems and Practices</td>
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<tr>
<td>CRIJ 2328 Police Systems and Practices or CJS 1359 Police Systems and Practices</td>
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<tr>
<td>CRIJ 2314 Criminal Investigation or CJS 1324 Criminal Investigation</td>
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<td>CJS 1308 Criminalistics I</td>
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Certificate of Technology Total | 34      |

Capstone: CRIJ 2323/CJS 2306

Approved Electives

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<tr>
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Crime Scene Technician (4CRIJ-CSTS)

Certificate of Technology

Central and North Campuses

First Term

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<th>Course</th>
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<tbody>
<tr>
<td>CRIJ 1301 Introduction to Criminal Justice or CJS 1322 Court Systems and Practices</td>
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<td>CRIJ 1306 Court Systems and Practices or CJS 1313 Court Systems and Practices</td>
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</tr>
<tr>
<td>CRIJ 2328 Police Systems and Practices or CJS 1359 Police Systems and Practices</td>
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<tr>
<td>CRIJ 2323 Legal Aspects of Law Enforcement or CJS 2300 Legal Aspects of Law Enforcement</td>
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<tr>
<td>CJLE 1327 Interviewing and Report Writing for Criminal Justice Professions</td>
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Second Term

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<tr>
<td>DFTG 1409 Basic Computer-Aided Drafting</td>
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<td>CJS 2323 Criminalistics II</td>
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<tr>
<td>CJLE 1327 Interviewing and Report Writing for Criminal Justice Professions</td>
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<tr>
<td>CRIJ 2323 Legal Aspects of Law Enforcement or CJS 2300 Legal Aspects of Law Enforcement</td>
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Certificate of Technology Total | 34      |

Capstone: CRIJ 2323/CJS 2306

Approved Electives

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<tr>
<td>CRIJ 1307/CJS 1312</td>
<td>3</td>
</tr>
<tr>
<td>CJS 1411</td>
<td>3</td>
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</table>
Basic Fire and Arson Investigator

Certificate

Central and North Campuses

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.

Culinary Arts

Culinary Arts - Chef Training (3CULA-C)

Associate of Applied Science Degree

Central Campus

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.

First Term

<table>
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<tr>
<th>Course</th>
<th>Credit</th>
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<td>CHEF 1305 Sanitation and Safety</td>
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<td>CHEF 1401 Basic Food Preparation</td>
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<tr>
<td>RSTO 1325 Purchasing for Hospitality Operations</td>
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<td>PSTR 1301 Fundamentals of Baking</td>
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<tr>
<td>MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or ***Science Elective</td>
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SUBTOTAL 16

Second Term

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<tbody>
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<td>RSTO 1313 Hospitality Supervision</td>
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<td>RSTO 2405 Management of Food Production and Service</td>
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<td>CHEF 2402 Saucier</td>
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<td>Speech</td>
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SUBTOTAL 17

Third Term

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<td>ENGL 1301 Composition I</td>
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SUBTOTAL 16

Fourth Term

<table>
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<tr>
<td>RSTO 2301 Principles of Food and Beverage Controls</td>
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<td>CHEF 2365 Practicum (or Field Experience) - Culinary Arts/Chef Training or RSTO 2365 Practicum (or Field Experience) - Restaurant, Culinary, and Catering Management/Manager</td>
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<tr>
<td>**Behavioral or Social Science</td>
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<tr>
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SUBTOTAL 17

Associate of Applied Science Degree Total 66

Capstone Experience: CHEF 2365 or RSTO 2365

*College Preparatory 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.

***Students must be Texas Success Initiative (TSI) complete in order to graduate: Math level 7.

Approved Electives

<table>
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<td>CHEF 2365</td>
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<td>IFWA 2441</td>
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<td>RSTO 1301</td>
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<td>RSTO 2365</td>
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<td>PSTR 2470</td>
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Chef Training (4CULA-C)

Certificate of Technology

Central Campus

First Term

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<thead>
<tr>
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<tbody>
<tr>
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<tr>
<td>RSTO 1313 Hospitality Supervision</td>
<td>3</td>
</tr>
<tr>
<td>RSTO 1325 Purchasing for Hospitality Operations</td>
<td>3</td>
</tr>
<tr>
<td>RSTO 2405 Management of Food Production and Service</td>
<td>4</td>
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<tr>
<td>CHEF 2402 Saucier</td>
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<tr>
<td>Speech</td>
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SUBTOTAL 16
### Culinary Arts (3CULA)

#### Associate of Applied Science Degree

##### North Campus

The culinary arts program provides basic education and training for student chefs. Culinary courses teach development of technical food preparation and service skills. Student chefs also learn principles of food and beverage composition, experience use and maintenance of commercial restaurant equipment, and develop basic supervisory skills.

The culinary arts program is ACF (American Culinary Federation) certified, and is currently the only culinary arts program with this certification at the community college level in the greater Houston area. The ACF is widely recognized as the most prestigious accreditation in the nation for a culinary education program. Upon graduation, students will be Certified ACF Culinarians.

<table>
<thead>
<tr>
<th>First Term</th>
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<tbody>
<tr>
<td>RSTO 1313 Hospitality Supervision</td>
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<tr>
<td>CHEF 1305 Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>CHEF 1401 Basic Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>PSTR 1301 Fundamentals of Baking</td>
<td>4</td>
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<tr>
<td>IFWA 2446 Quantity Procedures</td>
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<table>
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<th>Second Term</th>
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<tbody>
<tr>
<td>CHEF 1345 International Cuisine</td>
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<tr>
<td>RSTO 2431 Food Service Management</td>
<td>3</td>
</tr>
<tr>
<td>RSTO 2301 Principles of Food &amp; Beverage Control</td>
<td>3</td>
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<tr>
<td>PSTR 2331 Advanced Pastry Shop</td>
<td>3</td>
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<tr>
<td>CHEF 1314 A La Carte Cooking</td>
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<tr>
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</table>
Technical Programs

PostY1Summer Credit
IFWA 1318 Nutrition for Food Service Professional ........................................ 3
CHEF 1310 Garde Manger .................................................................................. 3
CHEF 2365 Practicum (or Field Experience)-Culinary Arts/Chef Training .................. 3

SUBTOTAL ...................................................... 9

Third Term Credit
ENGL 1301 Composition I ............................................................................. 3
Speech ................................................................................................................. 3
MATH 1314 College Algebra or MATH 1333 Contemporary Math for Tech ................. 3
*Behavioral or Social Sciences .......................................................................... 3
PHED Activity .................................................................................................... 1

SUBTOTAL ...................................................... 13

Fourth Term Credit
*Humanities or Fine Arts .................................................................................. 3
ITSC 1309 Integrated Software or BCIS 1305 Business Computer Applications ................. 3

SUBTOTAL ...................................................... 6

Certificate of Technology Total ............................................................................. 42
Verification of workplace competencies: External Field Experience - CHEF 2365 Practicum; Culinary Arts

Culinary Arts (4CULA)

Certificate of Technology

North Campus

The culinary arts program is ACF (American Culinary Federation) certified, and is currently the only culinary arts program with this certification at the community college level in the greater Houston area. The ACF is widely recognized as the most prestigious accreditation in the nation for a culinary education program. Upon graduation, students will be certified ACF Culinarians.

First Term Credit
RSTO 1313 Hospitality Supervision ................................................................. 3
CHEF 1401 Basic Food Preparation .................................................................. 4
CHEF 1305 Sanitation and Safety .................................................................. 3
PSTR 1301 Fundamentals of Baking ............................................................... 3
IFWA 2446 Quantity Procedures ................................................................... 4

SUBTOTAL ...................................................... 17

Second Term Credit
CHEF 1345 International Cuisine .................................................................. 3
RSTO 2431 Food Service Management .......................................................... 4
RSTO 2301 Principles of Food and Beverage Controls ........................................ 3
PSTR 2331 Advanced Pastry Shop .................................................................. 3
CHEF 1314 A La Carte Cooking ..................................................................... 3

SUBTOTAL ...................................................... 16

PostY1Summer Credit
IFWA 1318 Nutrition for Food Service Professional ........................................ 3
CHEF 1310 Garde Manger .................................................................................. 3
CHEF 2365 Practicum Culinary Arts .................................................................. 3

SUBTOTAL ...................................................... 9

Certificate of Technology Total ............................................................................. 42
Verification of workplace competencies: External Field Experience - CHEF 2365 Practicum; Culinary Arts

Pastry Chef Specialty (3CULA-PC)

Associate of Applied Science Degree

North Campus

The purpose of the Pastry Chef Program is to provide students with an opportunity to specialize their degree plan in baking and pastry. Program graduates will acquire relevant knowledge and skills that will prepare them to work in this exciting industry. Pastry chef students will learn cake decorating, chocolates and confection sugars, bakeshop production, plate presentation, fundamentals of baking, food and beverage cost control, nutritional components of food and desserts, and basic supervisory skills.

First Term Credit
CHEF 1305 Sanitation and Safety .................................................................. 3
RSTO 1313 Hospitality Supervision ................................................................. 3
PSTR 1306 Cake Decorating I .......................................................................... 3
PSTR 1301 Fundamentals of Baking ............................................................... 3
PSTR 1342 Quantity Bakeshop Production ..................................................... 3
PHED Activity .................................................................................................... 1

SUBTOTAL ...................................................... 16

Second Term Credit
PSTR 2301 Chocolates and Confections .......................................................... 3
PSTR 2307 Cake Decorating II .......................................................................... 3
RSTO 2301 Principles of Food and Beverage Controls ........................................ 3
PSTR 2331 Advanced Pastry Shop .................................................................. 3
PSTR 1391 Special Topics Baker/Pastry ............................................................. 3

SUBTOTAL ...................................................... 15
Certificate of Technology

North Campus

The pastry chef program provides students an opportunity to specialize in baking and pastry. Courses in cake decorating, chocolates and confection sugars, and bakeshop production are just some of the exciting and challenging classes you will take on your road to becoming a pastry chef. As a pastry chef student, you will spend time learning from our award winning chef instructors as you learn and operate in our state of the art kitchen and bakery.

North Campus’ culinary arts program is ACF (American Culinary Federation) certified, and is currently the only pastry chef program with this certification at the community college level in the greater Houston area. The ACF is widely recognized as the most prestigious accreditation in the nation for a culinary education program. Upon graduation, students will be certified ACF Pastry Culinarians.
### Technical Programs

Second Term | Credit
---|---
RSTO 2301 Principals of Food & Beverage Controls | 3
RSTO 2405 Management of Food Production and Service | 4
**SUBTOTAL** | **7**
Occupational Certificate Total | 17

**Advanced Foods Specialty (6CULA-AFDS)**

**Occupational Certificate**

**Central Campus**

| First Term | Credit |
---|---|
CHEF 1305 Sanitation and Safety | 3 |
CHEF 1401 Basic Food Preparation | 4 |
RSTO 1313 Hospitality Supervision | 3 |
**SUBTOTAL** | **10**

Second Term | Credit
---|---
RSTO 2405 Management of Food Production and Service | 4 |
CHEF1345 International Cuisine or IFWA 2441 Specialized Food Preparation | 3 |
CHEF 2402 Saucier | 4 |
**SUBTOTAL** | **11**
Occupational Certificate Total | 21

**Assistant Restaurant and Food Manager Specialty (6CULA-ARFM)**

**Occupational Certificate**

**Central Campus**

| First Term | Credit |
---|---|
CHEF 1305 Sanitation and Safety | 3 |
RSTO 1313 Hospitality Supervision | 3 |
CHEF 1401 Basic Food Preparation | 4 |
**SUBTOTAL** | **10**

Second Term | Credit
---|---
CHEF 1313 Food Service Operation Systems | 3 |
RSTO 2405 Management of Food Production and Service | 4 |
**SUBTOTAL** | **7**
Occupational Certificate Total | 17

### Dental Assisting

**Dental Assisting (4DENT)**

**Certificate of Technology**

**Central Campus**

The Dental Assisting Certificate of Technology is a course of study designed to meet the needs of those students desiring to enter the dental assisting field. The dental assisting program is a science-oriented and skill development curriculum. The standards of the curriculum are mandated by the Commission on Dental Accreditation (ADA). The method of instruction includes lecture, laboratory, and clinical practice.

| First Term | Credit |
---|---|
DNTA 1411 Dental Science | 4 |
DNTA 1305 Dental Radiography | 3 |
DNTA 1245 Preventative Dentistry | 2 |
DNTA 1415 Chairside Assisting | 4 |
DNTA 1401 Dental Materials | 4 |
**SUBTOTAL** | **17**

Second Term | Credit
---|---|
DNTA 1447 Advance Dental Science | 4 |
DNTA 1349 Dental Radiology in the Clinic | 3 |
DNTA 1251 Dental Office Management | 2 |
DNTA 1453 Dental Assisting Applications | 4 |
DNTA 1167 Practicum (or Field Experience) Dental Assisting/Assistant | 1 |
DNTA 1241 Dental Laboratory Procedures | 2 |
**SUBTOTAL** | **16**
### Diesel Technology

#### Diesel Technology (3DEMR)

**Associate of Applied Science Degree**

**North Campus**

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.

<table>
<thead>
<tr>
<th>First Term</th>
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<tbody>
<tr>
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<tr>
<td>DEMR 1410 Diesel Engine Testing and Repair I</td>
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<td>DEMR 1405 Basic Electrical Systems</td>
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<td>DEMR 1423 Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair</td>
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<td>DEMR 1421 Power Train I</td>
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<td>DEMR 1317 Basic Brake Systems</td>
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<thead>
<tr>
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<th>Credit</th>
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<tbody>
<tr>
<td>DEMR 1301 Shop Safety and Procedures</td>
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<tr>
<td>DEMR 1449 Diesel Engine II</td>
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<tr>
<td>DEMR 2334 Advanced Diesel Tune-up and Troubleshooting</td>
<td>3</td>
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<td>DEMR 2266 Field Experience-Diesel Engine Mechanic and Repair or DEMR 1229 Preventive Maintenance</td>
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**Certificate of Technology Total** 42

**Capstone Experience:** DEMR 2266 or DEMR 2334

### Diesel Technology (4DEMR)

**Certificate of Technology**

**North Campus**

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<td>DEMR 1410 Diesel Engine Testing and Repair I</td>
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<tbody>
<tr>
<td>DEMR 2412 Diesel Engine Testing and Repair II</td>
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<td>DEMR 1317 Basic Brake Systems</td>
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<td>DEMR 2432 Electronic Controls</td>
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<tr>
<td>DEMR 1301 Shop Safety and Procedures</td>
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<td>DEMR 1449 Diesel Engine II</td>
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<td>DEMR 2334 Advanced Diesel Tune-up and Troubleshooting</td>
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**Certificate of Technology Total** 42

**Capstone Experience:** DEMR 2266 or DEMR 2334

### Fourth Term

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<tbody>
<tr>
<td>MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
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<tr>
<td>ENGL 2311 Technical Report Writing</td>
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<tr>
<td>SPCH 1321 Business and Professional Speech</td>
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<tr>
<td>*Behavioral or Social Science</td>
</tr>
<tr>
<td>*Humanities or Fine Arts</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
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<tr>
<td><strong>Associate of Applied Science Degree Total</strong></td>
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</tbody>
</table>

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

Food Service Management (3DIET-FSVC)

Associate of Applied Science Degree

Central Campus

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.

First Term

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>RSTO 1325 Purchasing for Hospitality Operations</td>
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<tr>
<td>CHEF 1305 Sanitation and Safety</td>
<td>3</td>
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<tr>
<td>HECO 1322 Nutrition and Diet Therapy or</td>
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<tr>
<td>IFWA 1318 Nutrition for the Food Service Professional</td>
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Second Term

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<tr>
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Third Term

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Fourth Term

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<tr>
<td>RSTO 2365 Practicum (or Field Experience) - Culinary Arts/Chef Training</td>
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</tr>
<tr>
<td>RSTO 2301 Principles of Food and Beverage Controls</td>
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<tr>
<td>MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or</td>
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</table>

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

Capstone Experience: RSTO 2365 or 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.

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

***Students must be Texas Success Initiative (TSI) complete in order to graduate: Math level 7.

Approved Science Electives:
- CHEF 1345
- CHEF 2365
- CHEF 2402
- DITA 1400
- DITA 1401
- FDNS 1168
- IFWA 1305
- IFWA 2441
- FMLD 1372
- PSTR 1301
- PSTR 2431
- CHEF 1402
- PSTR 2470

Food Service Management (4DIET-FSVC)

Certificate of Technology

Central Campus

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>CHEF 1305 Sanitation and Safety</td>
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<tr>
<td>CHEF 1313 Food Service Operation/Systems</td>
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<tr>
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<td>FDNS 1309 Nutrition in the Community</td>
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<tr>
<td>RSTO 1313 Hospitality Supervision</td>
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Second Term

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<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>IFWA 1318 Nutrition for the Food Service Professional or</td>
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<tr>
<td>HECO 1322 Nutrition and Diet Therapy</td>
<td>3</td>
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<tr>
<td>RSTO 1325 Purchasing for Hospitality Operations</td>
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<tr>
<td>RSTO 2365 Practicum (or Field Experience) - Restaurant, Culinary, and Catering Management/Manager or</td>
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<tr>
<td>CHEF 2365 Practicum (or Field Experience) - Culinary Arts/Chef Training</td>
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</tr>
<tr>
<td>RSTO 2301 Principles of Food and Beverage Controls</td>
<td>3</td>
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<tr>
<td>RSTO 2405 Management of Food Production and Service</td>
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<tr>
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### Third Term

<table>
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<tr>
<th>Approved Elective</th>
<th>Credit</th>
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<tbody>
<tr>
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<tr>
<td></td>
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</table>

**SUBTOTAL** 10

**Certificate of Technology Total** 42

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

**Approved Electives**
- CHEF 1345
- CHEF 1402
- CHEF 2365
- CHEF 2402
- DITA 1400
- DITA 1401
- FDNS 1168
- FMLD 1372
- IFWA 1305
- IFWA 2441
- PSTR 1301
- PSTR 2431
- PSTR 2470

### Nutrition and Food Service Specialty (6DIET-NFSV)

**Occupational Certificate**

**Central Campus**

**First Term**
- CHEF 1305 Sanitation and Safety .................................... 3
- CHEF 1401 Basic Food Preparation .................................... 4
- IFWA 1318 Nutrition for the Food Service Professional or
  HECO 1322 Nutrition & Diet Therapy .................................. 3
- RSTO 1313 Hospitality Supervision .................................... 3

**SUBTOTAL** 13

**Second Term**
- CHEF 1345 International Cuisine or
  IFWA 2441 Specialized Food Preparation .......................... 3
- FDNS 1309 Nutrition in the Community ............................. 3
- RSTO 2301 Principles of Food and Beverage Controls ............ 3

**SUBTOTAL** 9

**Occupational Certificate Total** 22

**Capstone Experience:** FDNS 1309

### School Food Service Specialty (6DIET-SFSV)

**Occupational Certificate**

**Central Campus**

**First Term**
- IFWA 1318 Nutrition for the Food Service Professional or
  HECO 1322 Nutrition & Diet Therapy .................................. 3
- RSTO 1313 Hospitality Supervision .................................... 3
- CHEF 1401 Basic Food Preparation .................................... 4

**SUBTOTAL** 10

**Second Term**
- CHEF 1313 Food Service Operation/Systems ......................... 3
- RSTO 2405 Management of Food Production and Service .......... 4

**SUBTOTAL** 10

**Occupational Certificate Total** 20

### School Food Service Specialty I

**Specialty (6DIET-FSVI)**

**Occupational Certificate**

**Central Campus**

**First Term**
- IFWA 1318 Nutrition for the Food Service Professional ........ 3
- RSTO 1325 Purchasing for Hospitality Operations ............. 3
- RSTO 2405 Management of Food Production and Service .......... 4

**SUBTOTAL** 10

**Second Term**
- IFWA 1318 Nutrition for the Food Service Professional ........ 3
- RSTO 1325 Purchasing for Hospitality Operations ............. 3
- RSTO 2405 Management of Food Production and Service .......... 4

**SUBTOTAL** 10

**Occupational Certificate Total** 20

### Food Service II Specialty (6DIET-FSII)

**Occupational Certificate**

**Central Campus**

**First Term**
- FDNS 1309 Nutrition in the Community ............................. 3
- PSTR 1401 Fundamentals of Baking or
  PSTR 2431 Advanced Pastry Shop .................................... 4
- CHEF 2402 Saucier or
  IFWA 2441 Specialized Food Preparation .......................... 4

**SUBTOTAL** 11

**Second Term**
- CHEF 1313 Food Service Operation/Systems ......................... 3
- RSTO 2405 Management of Food Production and Service .......... 4

**SUBTOTAL** 7

**Occupational Certificate Total** 17
Technical Programs

Second Term Credit

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CHEF 1313 Food Service Operation/Systems</td>
<td>3</td>
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<tr>
<td>RSTO 2301 Principles of Food and Beverage Controls</td>
<td>3</td>
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Occupational Certificate Total 17

Dietary Manager (MDIET)

Marketable Skills Achievement Award

Central Campus

First Term Credit

<table>
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<tr>
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<tbody>
<tr>
<td>DITA 1400 Dietary Manager I</td>
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</tr>
<tr>
<td>FDNS 1168 Practicum (or Field Experience)-Dietetics/Dietitian (RD)</td>
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Second Term Credit

<table>
<thead>
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<th>Course</th>
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<tbody>
<tr>
<td>DITA 1401 Dietary Manager II</td>
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</tr>
<tr>
<td>FDNS 1169 Practicum (or Field Experience)-Dietetics/Dietitian (RD)</td>
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</table>

Marketable Skills Achievement Award Total 10

Drafting Technology

See Engineering Design Graphics

Electrical Technology

Electrical Technology (3ELEC)

Associate of Applied Science Degree

Central and North 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 Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ELPT 1215 Electrical Calculations I</td>
<td>2</td>
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<tr>
<td>ELPT 1311 Basic Electrical Theory</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 1325 National Electric Code I</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 1429 Residential Wiring</td>
<td>4</td>
</tr>
<tr>
<td>ITSC 1309 Integrated Software Applications or CPMT 1303 Introduction to Computer Technology or BCIS 1305 Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
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<td><strong>SUBTOTAL</strong></td>
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Second Term Credit

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<tbody>
<tr>
<td>ELPT 1345 Commercial Wiring</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 1351 Electrical Machines</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 2325 National Electric Code II</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 2215 Electrical Calculations II</td>
<td>2</td>
</tr>
<tr>
<td>MATH 1333 Contemporary Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
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Third Term Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ELPT 1441 Motor Controls</td>
<td>4</td>
</tr>
<tr>
<td>ELPT 2343 Electrical Systems Design or Approved Elective</td>
<td>3</td>
</tr>
<tr>
<td>*Behavioral or Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 2305 Motors and Transformers</td>
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Fourth Term Credit

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ELPT 2337 Electrical Planning and Estimating</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 2319 Programmable Logic Controllers I or Approved Elective</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 2364 Practicum-Electrical and Power Transmission Installation/Installer, General or Approved Elective</td>
<td>3</td>
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<tr>
<td>*Humanities or Fine Arts</td>
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<td>PHED Activity</td>
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</tr>
<tr>
<td>ENGL 2311 Technical Report Writing</td>
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</table>

Associate of Applied Science Degree Total 65

Capstone Experience: ELPT 2337

*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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>EECT 1340</td>
<td>ELPT 1355</td>
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<tr>
<td>ELPT 2301</td>
<td>ELPT 2319</td>
</tr>
<tr>
<td>ELPT 2449</td>
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Electrical Technology (4ELEC-TEC)

Certificate of Technology

Central and North Campuses

First Term Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ELPT 1215 Electrical Calculations I</td>
<td>2</td>
</tr>
<tr>
<td>ELPT 1311 Basic Electrical Theory</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 1325 National Electric Code I</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 1345 Commercial Wiring</td>
<td>3</td>
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<tr>
<td>ELPT 1351 Electrical Machines</td>
<td>3</td>
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<tr>
<td>ELPT 1429 Residential Wiring</td>
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### Second Term

<table>
<thead>
<tr>
<th>Course Code/Title</th>
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<tbody>
<tr>
<td>ELPT 1441 Motor Controls</td>
<td>4</td>
</tr>
<tr>
<td>ELPT 2215 Electrical Calculations II</td>
<td>2</td>
</tr>
<tr>
<td>ELPT 2325 National Electric Code II</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 2343 Electrical Systems Design or Approved Elective</td>
<td>3</td>
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<tr>
<td>ELPT 2305 Motors and Transformers</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 2364 Practicum - Electrical and Power Transmission Installation/Installer, General or Approved Elective</td>
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**SUBTOTAL**: 15

### Certificate of Technology Total

**36**

### Capstone Experience: ELPT 2215

**Approved Electives**

<table>
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<tr>
<th>Course Code/Title</th>
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<tbody>
<tr>
<td>EECT 1340 ELPT 1355 ELPT 1357 ELPT 1440</td>
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<td>ELPT 2301 ELPT 2319 ELPT 2337 ELPT 2347</td>
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<td>ELPT 2449 ELTN 1343</td>
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</table>

### Electrical Technology (6ELEC-TEC)

#### Occupational Certificate

**Central and North Campuses**

### First Term

<table>
<thead>
<tr>
<th>Course Code/Title</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ELPT 1215 Electrical Calculations I</td>
<td>2</td>
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<tr>
<td>ELPT 1311 Basic Electrical Theory</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 1325 National Electric Code I</td>
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<tr>
<td>ELPT 1429 Residential Wiring</td>
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<tr>
<td>ELPT 1345 Commercial Wiring</td>
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</table>

**Occupational Certificate Total**: 15

### Capstone Experience: ELPT 1345

**Electrical Power Generation Technician Specialty (3ELEC-PWRG)**

#### Associate of Applied Science Degree

**Central Campus**

### First Term

<table>
<thead>
<tr>
<th>Course Code/Title</th>
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<tbody>
<tr>
<td>ENER 1350 Overview of Energy Industry</td>
<td>3</td>
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<tr>
<td>ELMT 2351 Power Generation Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>Math 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
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<tr>
<td>OSHT 1320 Energy Industrial Safety</td>
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**SUBTOTAL**: 16

### Second Term

<table>
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<th>Course Code/Title</th>
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<tbody>
<tr>
<td>ENGL 1301 Composition I</td>
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<td>PHED Activity</td>
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<tr>
<td>ENER 1330 Basic Mechanical Skills for Energy</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 1311 Basic Electrical Theory</td>
<td>3</td>
</tr>
<tr>
<td>CETT 1325 Digital Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 1215 Electrical Calculations</td>
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**SUBTOTAL**: 15

### Third Term

**Credit**

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<th>Course Code/Title</th>
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<td>*Behavioral or Social Sciences</td>
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<tr>
<td>SCIT 1418 Applied Physics or CTEC 1401 Applied Petrochemical Technology</td>
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<tr>
<td>SPCH 1321 Business &amp; Professional Speech</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 2347 Electrical Testing and Maintenance</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 2305 Motors and Transformers</td>
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**SUBTOTAL**: 16

### Fourth Term

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<tbody>
<tr>
<td>ELTN 1343 Electrical Troubleshooting</td>
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<td>ENGL 2311 Technical Report Writing</td>
<td>3</td>
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<tr>
<td>*Humanities or Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 2319 Programmable Logic Controllers I</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 2339 Electrical Power Distribution or 2364 Practicum (or Field Experience) -Electrical and Power Transmission Installation/Installer, General</td>
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**SUBTOTAL**: 15

### Associate of Applied Science Degree

**62**

### Capstone Experience: ELPT 2339 or ELPT 2364

* 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.

### Electrical Power Generation Technician Specialty (4ELEC-PWRG)

#### Certificate of Technology

**Central Campus**

### First Term

<table>
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<th>Course Code/Title</th>
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<tbody>
<tr>
<td>ELPT 1311 Basic Electrical Theory</td>
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<td>CETT 1325 Digital Fundamentals</td>
<td>3</td>
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<tr>
<td>ELMT 2351 Power Generation Fundamentals</td>
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<tr>
<td>BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I</td>
<td>3</td>
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<tr>
<td>ELPT 1215 Electrical Calculations I</td>
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**SUBTOTAL**: 14
Electronics Technology

Electronics Technology (3ELECTRON)

Associate of Applied Science Degree

Central Campus

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, telecommunications, automation, sensors, 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CETT 1303 DC Circuits</td>
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<tr>
<td>CETT 1325 Digital Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1305 Introduction to PC Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>*MATH 1333 Contemporary Mathematics or</td>
<td></td>
</tr>
<tr>
<td>MATH 1314 College Algebra</td>
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Second Term

<table>
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<tbody>
<tr>
<td>CETT 1305 AC Circuits</td>
<td>3</td>
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<tr>
<td>CETT 1349 Digital Systems</td>
<td>3</td>
</tr>
<tr>
<td>CETT 1329 Solid State Devices</td>
<td>3</td>
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<tr>
<td>RBTC 1355 Sensors</td>
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<tr>
<td>CPMT 2345 Computer System Troubleshooting or</td>
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<tr>
<td>Approved Elective</td>
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Third Term

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ELMT 2341 Electromechanical Systems or</td>
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<tr>
<td>ELPT 2319 Programmable Logic Controllers I</td>
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<td>CETT 1357 Linear Integrated Circuits</td>
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<td>CPMT 1349 Computer Networking Technology or</td>
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<tr>
<td>ITCC 1401 Cisco Exploration 1 - Network Fundamentals</td>
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<tr>
<td>ELMT 2333 Industrial Electronics</td>
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</tr>
<tr>
<td>ENGL 2311 Technical Report Writing</td>
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<td>**Humanities or Fine Arts</td>
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Fourth Term

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<tr>
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<tr>
<td>CETT 2449 Research and Project Design or</td>
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<tr>
<td>Approved Elective</td>
<td>3</td>
</tr>
<tr>
<td>EECT 1307 Convergence Technologies or</td>
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<tr>
<td>Approved Elective</td>
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<tr>
<td>ELMT 2335 Certified Electronics Technician Training or</td>
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<tr>
<td>EECT 2367 Practicum (or Field Experience) - Electrical, Electronic and Communications Engineering Technology Technician</td>
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**Associate of Applied Science Degree Total** 69

Capstone Experience: EECT 2367

Approved Electives

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<tr>
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<tbody>
<tr>
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<tr>
<td>ITSC 1305 ELMT 1305 FCEL 1405</td>
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<tr>
<td>* Students planning to pursue a baccalaureate degree should enroll in MATH 1314.</td>
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<td>**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.</td>
<td></td>
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</table>

Electronics Technology (4ELECTRON)

Certificate of Technology

Central Campus

The Certificate of Technology 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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CETT 1303 DC Circuits</td>
<td>3</td>
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<tr>
<td>CETT 1325 Digital Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1325 Personal Computer Hardware</td>
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</table>
Technical Programs

<table>
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<th>Credit</th>
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<tbody>
<tr>
<td>CETT 1305 AC Circuits</td>
<td>3</td>
</tr>
<tr>
<td>CETT 1349 Digital Systems</td>
<td>3</td>
</tr>
<tr>
<td>CETT 1329 Solid State Devices</td>
<td>3</td>
</tr>
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<td>CETT 2345 Computer System Troubleshooting or Approved Elective</td>
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<table>
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<tr>
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<tbody>
<tr>
<td>RBTC 1355 Sensors and Automation</td>
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<tr>
<td>EECT 1340 Telecommunications Transmission Media</td>
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</tr>
<tr>
<td>EECT 2439 Communications Circuits or Approved Elective</td>
<td>3</td>
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<tr>
<td>ELMT 2341 Electromechanical Systems or ELPT 2319 Programmable Logic Controllers I</td>
<td>3</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</table>

Certificate of Technology Total 33

Capstone Experience: CPMT 2345

Approved Electives:
- CETT 2449
- EECT 2439
- CETT 1357
- CPMT 1349
- ITCC 1401
- ITSC 1321
- EECT 1307
- ITCC 1404
- ITCC 2408
- FCEL 1405
- ELMT 2335

Emerging Electronics Technology (4ELEC-EMRG)

**Certificate of Technology**

**Central Campus**

The Emerging Electronics Technology, Certificate of Technology is designed to prepare the electronics technician to work with the new automated systems used in security, home automation, commercial and renewable power systems. The student will study common electronic instrumentation systems used to measure and control a wide variety of processes, along with proper diagnostic and repair procedures. Each course will have a laboratory section where students will have the opportunity to practice the concepts and procedures studied in the classroom. Upon completion of this program, the student should be able to enter the job market as a member of a team of technicians that install, service, and maintain all systems.

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>CETT 1303 DC Circuits</td>
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<tr>
<td>CETT 1325 Digital Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1325 Personal Computer Hardware</td>
<td>3</td>
</tr>
<tr>
<td>ELMT 1305 Basic Fluid Power</td>
<td>3</td>
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<tr>
<td>INTC 1301 Principles of Industrial Measurements I</td>
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<table>
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<tr>
<td>CETT 1305 AC Circuits</td>
<td>3</td>
</tr>
<tr>
<td>CETT 1349 Digital Systems</td>
<td>3</td>
</tr>
<tr>
<td>CETT 1329 Solid State Devices</td>
<td>3</td>
</tr>
<tr>
<td>RBTC 1355 Sensors</td>
<td>3</td>
</tr>
<tr>
<td>CPMT 1349 Computer Networking Technology or ITCC 1401 Cisco Exploration 1 - Network Fundamentals</td>
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<tr>
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<tr>
<td>CETT 1357 Linear Integrated Circuits</td>
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<td>ELMT 2333 Industrial Electronics</td>
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<tr>
<td>FCEL 1405 Fuel Cell and Alternative/Renewable Energy or CETT 2449 Research and Project Design</td>
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<td>EECT 1307 Convergence Technologies or Approved Elective</td>
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Certificate of Technology Total 46

Capstone Experience: EECT 2335

Approved Electives:
- CPMT 2345
- EECT 1340
- ITSC 1305

Electronics Technology (6ELCTRN-COMM)

**Occupational Certificate**

**Central Campus**

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 installing and troubleshooting these systems to the fields associated with radio, telephone, data-relay, and other communications systems.

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<tbody>
<tr>
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<tr>
<td>CETT 1329 Solid State Devices</td>
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<td>CETT 1357 Linear Integrated Circuits</td>
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<tr>
<td>EECT 2439 Communications Circuits</td>
<td>4</td>
</tr>
<tr>
<td>EECT 1307 Convergence Technologies</td>
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<tr>
<td>ELMT 2335 Certified Electronics Technician Training</td>
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Occupational Certificate Total 25

Capstone Experience: EECT 2335
Technical Programs

Electronics Maintenance Technology (6ELCTRN-MT)

Occupational Certificate

Central Campus

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

<table>
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<tr>
<th>Course</th>
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<tbody>
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<tr>
<td>CETT 1325 Digital Fundamentals</td>
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<tr>
<td>ITSC 1305 Introduction to PC Operating Systems</td>
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Second Term

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<tr>
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Occupational Certificate Total 24

Capstone Experience: CPMT 2345

Approved Electives

ITCC 2408  ITCC 2404  EECT 1340

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 EMT requirements for certification eligibility. Students registering for the emergency medical technology program must be potentially eligible to attempt TDSHS required the National Registry of EMT 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:

Texas Department of State Health Services EMS and Trauma Systems

1100 West 49th Street
Austin, TX 78756-3199
Office: (512) 458-7111 and,

Committee on Accreditation of Allied Health Education Programs (CAAHEP), through the Committee on Accreditation of Educational Programs for the EMS Professions (CoAEMSP).

8301 Lakeview Parkway
Suite 111-312
Rowlett, Texas 75088
Office: (214) 703-8445
Fax: (214) 703-8992

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 for certification and/or examinations. There may also be additional charges for field experiences.

The EMT program is designed to train 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 curriculum set forth by the U.S. Department of Transportation, the Texas Department of State Health Services (TDSHS), the American Heart Association - Emergency Cardiac Care Committee (AHA-ECC), the International Trauma Life Support Association (ITLS) 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 (ACLS), International Trauma Life Support - Basic & Advanced (ITLS), Pediatric Advance Life Support (PALS), and ethical-legal responsibilities.

Anatomy and physiology requirements for the associate of applied science, certificate of technology, and occupational certificate require successful completion of the EMSP 1371 (Anatomy and Physiology for Emergency Care). However, those students planning to pursue a bachelor's 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 EMSP 1371, 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 or BCIS 1305 Business Computer Applications.

Objectives

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

- Demonstrate the knowledge and skills necessary for pre-hospital emergency medical care and patient management.
- Demonstrate accepted characteristics of professionalism and compassionate patient management.
- Utilize accepted knowledge and skills principles to provide emergency medical care in the pre-hospital setting.
- Utilize communication skills to establish and maintain effective interpersonal relationships in the realm of emergency medical care.
- Assume responsibility for continuing education to maintain professional competency and to meet state and national certification requirements.
- Function in the capacity of an emergency medical team leader.
- Participate as a member of the emergency medical services community in providing pre-hospital care, EMS system development, and education.
- Successfully pass the National Registry of EMT registry examination for certification in the field of emergency medical services, as required for certification in the state of Texas.

Program Information

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.

- 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.
- Students must have a high school diploma or GED certificate to be eligible to receive certification from the Texas Department of State Health Services.
- 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.
- Each EMSP student who registers for an EMSP clinical or practicum course (EMSP 1160, 1260, 2160, 2161, 2162, 2168, 2163, 2168) will be required to purchase appropriate clinical attire and equipment.
- Each student who registers for an EMSP clinical or practicum course (EMSP 1160, 1260, 2160, 2161, 2162, 2163, 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.
- A prescribed physical examination is required for clinical and ambulance rotations, based on affiliation agreements. Proof of the physical examination must be on file in the EMSP office prior to attending those rotations.
- 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/pertussis are required every 10 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 chicken pox 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.
- Clinical site and time assignments are made at the discretion of the College and its affiliates and are subject to change without notice.
- 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 EMSP2238, 1501, 1160, 1338, 1356, 1260, 2444, 2161, 2330, 2434, 2162, 2243, 2168,1491, 2358, 2160, 2359 and 2163. American Heart Association Healthcare Provider CPR training is included in EMSP 1501 course.

A prescribed physical examination is required for clinical and ambulance rotations, based on affiliation agreements. Proof of the physical examination must be on file in the EMSP office prior to attending those rotations.

Each EMSP student who registers for an EMSP clinical or practicum course (EMSP 1160, 1260, 2160, 2161, 2162, 2168, 2163, 2168) will be required to purchase appropriate clinical attire and equipment.

Each student who registers for an EMSP clinical or practicum course (EMSP 1160, 1260, 2160, 2161, 2162, 2163, 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.

A prescribed physical examination is required for clinical and ambulance rotations, based on affiliation agreements. Proof of the physical examination must be on file in the EMSP office prior to attending those rotations.

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/pertussis are required every 10 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 chicken pox 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.

Clinical site and time assignments are made at the discretion of the College and its affiliates and are subject to change without notice.

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 EMSP2238, 1501, 1160, 1338, 1356, 1260, 2444, 2161, 2330, 2434, 2162, 2243, 2168,1491, 2358, 2160, 2359 and 2163. American Heart Association Healthcare Provider CPR training is included in EMSP 1501 course.
Emergency Medical Technology (3EMT)

**Associate of Applied Science Degree**

**Central and North Campuses**

<table>
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<tr>
<th>First Term</th>
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<tbody>
<tr>
<td>EMSP 1501  Emergency Medical Technician</td>
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<tr>
<td>EMSP 1160  Clinical - Emergency Medical Technician - Basic</td>
<td>1</td>
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<tr>
<td>EMSP 2238  EMS Operations</td>
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<td>ENGL 1301  ENGL 1301 Composition I</td>
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<td>MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
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<tr>
<td><strong>EMSP 1371 Anatomy and Physiology for Emergency Care</strong></td>
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<tr>
<td>EMSP 1338  Introduction to Advanced Practice</td>
<td>3</td>
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<tr>
<td>EMSP 1355  Trauma Management</td>
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<td>EMSP 1356  Patient Assessment and Airway Management</td>
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<td>EMSP 1260  Clinical - Emergency Medical Technician - Intermediate</td>
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<td>ENGL 1302  Composition II or ENGL 2311 Technical Report Writing</td>
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<td>EMSP 2444  Cardiology</td>
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<td>EMSP 2161  Clinical - Emergency Medical Technician - Paramedic I</td>
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<tr>
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<td>4</td>
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<tr>
<td>EMSP 2330  Special Populations</td>
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<tr>
<td>EMSP 2162  Clinical - Emergency Medical Technician - Paramedic II</td>
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<td>EMSP 2243  Assessment Based Management</td>
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<td>EMSP 2168  Practicum/Field Experience - Emergency Medical Technician - Paramedic</td>
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**Associate of Applied Science Degree Total** 68

**Capstone Experience: EMSP 2243**

**Credentialing Exam: National Registry of EMT**

**APPROVED ELECTIVES:**
- EMSP 2359  EMSP 2160  EMSP 1491

*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.*

**Students desiring to obtain a baccalaureate degree should take BIOL 2401 and BIOL 2402, Emergency Medical Technology (4EMT)**

Emergency Medical Technology (4EMT)

**Certificate of Technology**

**Central and North Campuses**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>EMSP 1501  Emergency Medical Technician</td>
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<td>EMSP 2238  EMS Operations</td>
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<td>EMSP 1355  Trauma Management</td>
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<tr>
<td>EMSP 2348  Emergency Pharmacology</td>
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<td>EMSP 2444  Cardiology</td>
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<td>EMSP 2161  Clinical - Emergency Medical Technician - Paramedic I</td>
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<tr>
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<td>EMSP 2162  Clinical - Emergency Medical Technician - Intermediate</td>
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Fourth Term

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<td>EMSP 2330 Special Populations</td>
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<td>EMSP 2162 Clinical - Emergency Medical Technician - Paramedic II</td>
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Fifth Term

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**Credential Exam: National Registry of EMT**

**Students desiring to obtain a baccalaureate degree should take BIOL 2401 and BIOL 2402.**

Emergency Medical Technology (6EMT)

**Occupational Certificate**

**Central and North Campuses**

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>EMSP 1501 Emergency Medical Technician</td>
<td>5</td>
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<tr>
<td>EMSP 2238 EMS Operations</td>
<td>2</td>
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<tr>
<td><strong>EMSP 1371 Anatomy and Physiology for Emergency Care</strong></td>
<td>3</td>
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<tr>
<td><strong>Subtotal</strong></td>
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Second Term

<table>
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<tr>
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<tbody>
<tr>
<td>EMSP 1338 Introduction to Advanced Practice</td>
<td>3</td>
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<tr>
<td>EMSP 1355 Trauma Management</td>
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</tr>
<tr>
<td>EMSP 1356 Patient Assessment and Airway Mgmt</td>
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</tr>
<tr>
<td>EMSP 1160 Clinical-Emergency Medical Technician-Basic</td>
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Third Term

<table>
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</table>

**All Campuses**

**Engineering Design Graphics**

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 animators/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 or fine arts.
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 associate of applied science (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. 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.

### Engineering Design Graphics (3DFTG)

#### Associate of Applied Science Degree

**All Campuses**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DFTG 1405 Technical Drafting</td>
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<tr>
<td>DFTG 1409 Basic Computer-Aided Drafting</td>
<td>4</td>
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<tr>
<td>ENGL 1301 Composition I</td>
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<td>PHED Activity</td>
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<tr>
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<table>
<thead>
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<th>Credit</th>
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<tbody>
<tr>
<td>DFTG 2417 Descriptive Geometry</td>
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<tr>
<td>Engineering Design Graphics Elective</td>
<td>4</td>
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<td>PHED Activity</td>
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<table>
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<tr>
<td>MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
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<tr>
<td>*Behavioral or Social Sciences</td>
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### Fourth Term

<table>
<thead>
<tr>
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<tr>
<td>4</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

#### Associate of Applied Science Degree Total 67

+ Capstone Experience: DFTG 2386 or DFTG 2438

AAS Degrees in multiple Engineering Design Graphics 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.

Students must complete eight (8) courses in an Engineering Design Graphics (EDG) discipline to qualify for an Associate of Applied Science Specialty degree. Those courses may be chosen from the following specialty disciplines:

**Architectural/Civil/Structural Specialty:**
- ARCE 1421
- ARCE 1452
- ARTV 1417
- ARTV 2421
- DFTG 2428 and three (3) EDG electives, excluding DFTG 1413

**Mechanical Specialty:**
- DFTG 1445
- DFTG 2402
- DFTG 2406
- DFTG 2440
- DFTG 2458 and three (3) EDG electives, excluding DFTG 1413

**Petro/Industrial Specialty:**
- ARCE 1452
- DFTG 2423
- DFTG 2445
- DFTG 2407
- DFTG 2421 or DFTG 2408

and three (3) EDG electives, excluding DFTG 1413

**Engineering Design Graphics electives:** (Choose three)
- ARCE 1421
- ARCE 1452
- ARTV 1402
- ARTV 2421
- MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra
- *Behavioral or Social Sciences
- DFTG 2428
- DFTG 2432
- DFTG 2436
- DFTG 2440
- DFTG 2444
- DFTG 2445
- DFTG 2447
- DFTG 2458
- DFTG 2407

#### Engineering Design Graphics (4DFTG)

**Certificate of Technology**

**All Campuses**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>DFTG 1405 Technical Drafting</td>
<td>4</td>
</tr>
<tr>
<td>DFTG 1409 Basic Computer-Aided Drafting</td>
<td>4</td>
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<td>4</td>
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<tr>
<td>Engineering Design Graphic Elective</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</tr>
</tbody>
</table>
### Engineering Design Graphics

#### Architectural/Civil/Structural Specialty (3DFT-A)

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

**Engineering Design Graphics electives: (Choose four)**

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<tr>
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<td>DFTG 2406</td>
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<td>DFTG 2423</td>
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<tr>
<td>DFTG 2407</td>
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</table>

**SUBTOTAL** 15

**Certificate of Technology Total** 31

+ 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.

### Associate of Applied Science Degree

**All Campuses**

<table>
<thead>
<tr>
<th>Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>First Term</td>
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<td>Second Term</td>
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<td>Third Term</td>
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<tr>
<td>Fourth Term</td>
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</table>

**SUBTOTAL** 67

+ *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.

**Architectural/Civil/Structural Specialty Electives:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<td>DFTG 1410</td>
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<tr>
<td>DFTG 2447</td>
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</table>

**Engineering Design Graphics Electives:**

<table>
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<tr>
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<th>Course Name</th>
<th>Credit</th>
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<td>DFTG 2406</td>
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<td>DFTG 2421</td>
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<td>DFTG 2447</td>
<td>DFTG 2458</td>
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**Certificate of Technology**

**All Campuses**

<table>
<thead>
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<tbody>
<tr>
<td>First Term</td>
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**SUBTOTAL** 16

*Behavioral or Social Sciences.*
### Second Term

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DFTG 2417 Descriptive Geometry</td>
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<tr>
<td>Specialty Elective</td>
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<tr>
<td>Specialty Elective</td>
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<td>DFTG 2386 Internship-Drafting and Design Technology/Technician, General or DFTG 2438 Final Project-Advanced Drafting</td>
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</table>

**SUBTOTAL** 15

**Certificate of Technology Total** 31

**+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 (3DFT-M)

#### Associate of Applied Science Degree

**All Campuses**

### First Term

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DFTG 1405 Technical Drafting</td>
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<tr>
<td>DFTG 1409 Basic Computer-Aided Drafting</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
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</table>

**PHED Activity** 1

**+Oral Communications** 3

**SUBTOTAL** 15

### Second Term

<table>
<thead>
<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td>DFTG 2417 Descriptive Geometry</td>
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<tr>
<td>DFTG 1445 Parametric Modeling and Design</td>
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**PHED Activity** 1

**SUBTOTAL** 17

### Third Term

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**+Behavioral or Social Sciences** 3

**SUBTOTAL** 18

### Fourth Term

<table>
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<tr>
<td>ENGL 2311 Technical Report Writing</td>
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</table>

**SUBTOTAL** 17

**Associate of Applied Science Degree Total** 67

**+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 Elective: (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 2449
- DFTG 2457

### Engineering Design Graphics Mechanical Specialty (4DFT-M)

#### Certificate of Technology

**All Campuses**

### First Term

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DFTG 1405 Technical Drafting</td>
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**Mechanical Specialty Elective** 4

**SUBTOTAL** 16
### Technical Programs

**Second Term**

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**Certificate of Technology Total**

15

**Fourth Term**

<table>
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<tr>
<th>Course</th>
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<td>Major Elective</td>
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</table>
*Humanities or Fine Arts                                    | 3      |

**SUBTOTAL**

17

### Petro/Industrial Specialty (3DFT-PI)

**Associate of Applied Science Degree**

**All Campuses**

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DFTG 1405 Technical Drafting</td>
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<td>4</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
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</tr>
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</table>
*Oral Communications                                         | 3      |
PHED Activity                                                | 1      |

**SUBTOTAL**

15

**Second Term**

<table>
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<th>Course</th>
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<tr>
<td>PHED Activity</td>
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**SUBTOTAL**

17

**Third Term**

<table>
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<tr>
<th>Course</th>
<th>Credit</th>
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</tr>
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</table>
*Behavioral or Social Sciences                               | 3      |

**SUBTOTAL**

18

**Fourth Term**

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<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Major Elective</td>
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</tr>
<tr>
<td>ENGL 2311 Technical Report Writing</td>
<td>3</td>
</tr>
</tbody>
</table>
*Humanities or Fine Arts                                     | 3      |

**Associate of Applied Science Degree Total**

67

**Petro/Industrial Specialty Electives**

ARCE 1452  DFTG 2408  DFTG 2421  DFTG 2423
DFTG 2445  DFTG 2407

**Engineering Design Graphics Major 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 2407

**Certificate of Technology**

**All Campuses**

**Petro/Industrial Specialty (4DFT-PI)**

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFTG 1405 Technical Drafting</td>
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<td>DFTG 1409 Basic Computer-Aided Drafting</td>
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**SUBTOTAL**

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### Petro/Industrial Specialty (3DFT-PI)

**Certificate of Technology**

**All Campuses**

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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<tr>
<td>DFTG 1409 Basic Computer-Aided Drafting</td>
<td>4</td>
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<tr>
<td>Petro/Industrial Specialty</td>
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<tr>
<td>Petro/Industrial Specialty</td>
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**SUBTOTAL**

16
### Technical Programs

#### Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DFTG 2417 Descriptive Geometry</td>
<td>4</td>
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<tr>
<td>Petro/Industrial Specialty</td>
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<tr>
<td>DFTG 2386 Internship-Drafting Design</td>
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<tr>
<td>Petro/Industrial Specialty</td>
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**SUBTOTAL** 15

**Certificate of Technology Total** 31

**+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 2407  DFTG 2421 or ARCE 1452 or DFTG 2408

---

#### Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Engineering Design Graphics Elective</td>
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<tr>
<td>DFTG 2386 Internship-Drafting and Design</td>
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<tr>
<td>Petro/Industrial Specialty Elective</td>
<td>3</td>
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<tr>
<td>ENGL 2311 Technical Report Writing</td>
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<td>PHED Activity</td>
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</table>

**SUBTOTAL** 15

**Associate of Applied Science Degree Total** 63

**+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 (3DFT-TA)

### Associate of Applied Science Degree

#### All Campuses

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DFTG 1405 Technical Drafting</td>
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<tr>
<td>DFTG 1409 Basic Computer-Aided Drafting</td>
<td>4</td>
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<tr>
<td>ENGL 1301 Composition I</td>
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<td>*Oral Communications</td>
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**SUBTOTAL** 15

**Second Term**

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>DFTG 2417 Descriptive Geometry</td>
<td>4</td>
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<td>Specialty Elective</td>
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<tr>
<td>ENGL 2311 Technical Report Writing</td>
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**SUBTOTAL** 16

**Third Term**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
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<td>*Humanities or Fine Arts</td>
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**SUBTOTAL** 18

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#### Fourth Term

<table>
<thead>
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<tr>
<td>Engineering Design Graphics Elective</td>
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<tr>
<td>DFTG 2386 Internship-Drafting and Design</td>
<td>3</td>
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<tr>
<td>Petro/Industrial Specialty Elective</td>
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<td>ENGL 2311 Technical Report Writing</td>
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**SUBTOTAL** 14

**Associate of Applied Science Degree Total** 63

**+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 (4DFT-TA)

### Certificate of Technology

#### All Campuses

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DFTG 1405 Technical Drafting</td>
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<tr>
<td>DFTG 1409 Basic Computer-Aided Drafting</td>
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<td>Specialty Elective</td>
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**SUBTOTAL** 12

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**Second Term**

<table>
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<tbody>
<tr>
<td>DFTG 2417 Descriptive Geometry</td>
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<tr>
<td>MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>*Humanities or Fine Arts</td>
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</tbody>
</table>

**SUBTOTAL** 18
**Eye Care Technology**

**Central Campus**

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.

Our eye care technology department consists of three levels of preparation. Students may obtain an Occupational Certificate, a Certificate of Technology, or their Associate of Applied Science degree. This program is designed to correlate classroom and laboratory experience with clinical experience in ophthalmic offices and clinics.

The eye care technology program is accredited by the Commission on Accreditation of Ophthalmic Medical Programs (CoA-OMP). Those graduates of the Associate of Applied Science degree are eligible to petition for examination through the Joint Commission on Allied Health Personnel in Ophthalmology at the certified ophthalmic technician level. Graduated of any of the three levels are eligible to petition for examination through the American Board of Opticianry for certification as an optician and/or the National Contact Lens Examiner.

The program requires formal entry into the program via departmental interview. Only those students who have been officially admitted to the college and have met all college admission criteria will be considered. The eye care technology department accepts new students each fall term. Students who miss the fall entry may discuss spring or summer alternate entry options with the program director. The program offers both day and evening course as well as hybrid and online courses.

After acceptance into the program, the student must have a physical examination by a licensed professional and documentation of updated immunizations. A valid Healthcare Provider CPR card must be submitted as well.

Eye care technology student must earn a C or better in all eye care courses and maintain an overall cumulative GPA of at least 2.0 in order to remain in and/or graduate from the program. Any student earning a grade of D, W, or F in any eye care technology course must repeat the course and pass with a grade of C or higher. A second earned grade of less than C will result in the student being dismissed from the program. To re-enter into the program the student must submit a written petition to the eye care technology admission committee, and satisfy the re-admission criteria specified by the committee.
Eye Care Technology (3EYE)

**Associate of Applied Science Degree**

**Central Campus**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>OPTS 1471 Anatomy and Physiology for Eye Care Technology</td>
<td>4</td>
</tr>
<tr>
<td>OPTS 1311 Visual System</td>
<td>3</td>
</tr>
<tr>
<td>OPTS 2441 Ophthalmic Techniques</td>
<td>4</td>
</tr>
<tr>
<td>OPTS 1191 Special Topics in Opticianry/Dispensing Optician</td>
<td>1</td>
</tr>
<tr>
<td>HPRS 1106 Essentials of Medical Terminology</td>
<td>1</td>
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<tr>
<td>ENGL 1301 Composition I</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>16</strong></td>
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<table>
<thead>
<tr>
<th>Second Term</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>OPTS 1501 Ophthalmic Dispensing</td>
<td>5</td>
</tr>
<tr>
<td>OPTS 1315 Basic Contact Lenses</td>
<td>3</td>
</tr>
<tr>
<td>OPTS 1266 Practicum (Field Experience) - Opticianry/Ophthalmic Dispensing/Optician</td>
<td>2</td>
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<td>PHED Activity</td>
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<thead>
<tr>
<th>PostY1Summer</th>
<th>Credit</th>
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<tr>
<td>OPTS 1166 Practicum (or Field Experience) - Opticianry/Ophthalmic Dispensing/Optician</td>
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<tr>
<td>HPRS 1105 Medical Law/Ethics for Health Professionals</td>
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<td>POFM 1327 Medical Insurance</td>
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<td>OPTS 2350 Ophthalmic Surgical Techniques</td>
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<table>
<thead>
<tr>
<th>Third Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>HPRS 2200 Pharmacology for Health Professions</td>
<td>2</td>
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<tr>
<td>OPTS 2445 Advanced Ophthalmic Techniques</td>
<td>4</td>
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<tr>
<td>OPTS 1392 Special Topics in Opticianry/Dispensing Optician</td>
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<tr>
<td>MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
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<tr>
<td>PHED Activity</td>
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<td>OPTS 2366 Practicum (or Field Experience) - Opticianry/Ophthalmic Dispensing/Optician</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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<table>
<thead>
<tr>
<th>Fourth Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>OPTS 2266 Practicum (or Field Experience) - Opticianry/Ophthalmic Dispensing/Optician</td>
<td>2</td>
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<tr>
<td>OPTS 2431 Advanced Ophthalmic Dispensing</td>
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<tr>
<td>*Humanities or Fine Arts</td>
<td>3</td>
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<tr>
<td>Speech</td>
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<tr>
<td>PSYC 2301 General Psychology</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</table>

**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.*

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Eye Care Technology (4EYE)

**Certificate of Technology (Technician)**

**Central Campus**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>OPTS 1311 Visual System</td>
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</tr>
<tr>
<td>HPRS 2200 Pharmacology for Health Professions</td>
<td>2</td>
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<tr>
<td>OPTS 1266 Practicum (or Field Experience) - Opticianry/Ophthalmic Dispensing/Optician</td>
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<table>
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<th>Credit</th>
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<tbody>
<tr>
<td>OPTS 1501 Ophthalmic Dispensing</td>
<td>5</td>
</tr>
<tr>
<td>OPTS 2441 Ophthalmic Techniques</td>
<td>4</td>
</tr>
<tr>
<td>OPTS 1315 Basic Contact Lenses</td>
<td>3</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
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<table>
<thead>
<tr>
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<th>Credit</th>
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<tbody>
<tr>
<td>HPRS 1105 Medical Law/Ethics for Health Professionals</td>
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<tr>
<td>OPTS 1166 Ophthalmic Practicum I</td>
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<table>
<thead>
<tr>
<th>Second Term</th>
<th>Credit</th>
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<tr>
<td>OPTS 2366 Practicum (or Field Experience) - Opticianry/Ophthalmic Dispensing/Optician</td>
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<td><strong>SUBTOTAL</strong></td>
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<table>
<thead>
<tr>
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<th>Credit</th>
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<tbody>
<tr>
<td>OPTS 2431 Advanced Ophthalmic Dispensing</td>
<td>4</td>
</tr>
<tr>
<td>OPTS 2445 Advanced Ophthalmic Techniques</td>
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<th>Credit</th>
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<tbody>
<tr>
<td>OPTS 2266 Ophthalmic Practicum II</td>
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**Certificate of Technology Total**

**33**

**Optician Preparatory (6EYE-PREP)**

**Occupational Certificate**

**Central Campus**

<table>
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<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>OPTS 1501 Ophthalmic Dispense</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</table>
### Firefighter Training Academy

#### Central Campus

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>FIRS 1301</td>
<td>Firefighter Certification I</td>
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<td>FIRS 1407</td>
<td>Firefighter Certification II</td>
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<td>FIRS 1313</td>
<td>Firefighter Certification III</td>
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<td>FIRS 1319</td>
<td>Firefighter Certification IV</td>
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<td>FIRS 1423</td>
<td>Firefighter Certification V</td>
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<td>FIRS 1329</td>
<td>Firefighter Certification VI</td>
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<td>FIRS 1433</td>
<td>Firefighter Certification VII</td>
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<td>EMSP 1501</td>
<td>Emergency Medical Technician</td>
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</table>

**Firefighter Training Academy Total** 32

#### Academy Information

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.

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 percent refund in accordance with the current refund policy if officially withdrawn in the registrar’s office on or before the 12th class day.

Firefighter Training Academy students must earn a grade of 70 or better on each of the academy exams in order to graduate from the academy. Failure to earn a grade of 70 or better on any exam in the academy will result in the student being administratively withdrawn from all Firefighter Training Academy courses. Please see course syllabus for details.

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.

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.

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.

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 (3FIRE-PROT)

Associate of Applied Science Degree

Central Campus

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>FIRS 1301</td>
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<td>FIRS 1313</td>
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SUBTOTAL 15

Second Term

<table>
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<tr>
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<th>Credit</th>
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<tbody>
<tr>
<td>FIRS 1319</td>
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SUBTOTAL 11

Third Term

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<td>MATH 1333</td>
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<tr>
<td>*Behavioral or Social Sciences</td>
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<td>FIRT 1327</td>
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SUBTOTAL 18

Fourth Term

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SUBTOTAL 15

PostY2Summer

<table>
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<tr>
<td>Approved Elective</td>
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SUBTOTAL 6

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 and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

Approved Electives

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<td>FIRT 2370</td>
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www.sanjac.edu
Firefighting (4FIREFTG)

Certificate of Technology

Central Campus

First Term Credit

<table>
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<td>FIRS 1407</td>
<td>Firefighter Certification II</td>
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Subtotal 15

PostY1Summer Credit

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Subtotal 6

Third Term Credit

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<td>HITT 2360</td>
<td>Clinical - I</td>
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<tr>
<td>HITT 2335</td>
<td>Coding and Reimbursement Methods</td>
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<td>HITT 2346</td>
<td>Advanced Medical Coding</td>
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Subtotal 15

Fourth Term Credit

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<tr>
<td>HITT 2343</td>
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<tr>
<td>HITT 2361</td>
<td>Clinical - II</td>
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<td>HITT 2339</td>
<td>Health Information Organization and Supervision</td>
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<td>HITT 2249</td>
<td>RHIT Competency Review</td>
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<td>PSYC 2301</td>
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Subtotal 15

Associate of Applied Science Degree Total 67

External Learning Experience: HITT 2360 HITT 2361

Certification Exam: RHIT National Certification Exam

Note: Students must pass each HITT and HPRS course listed in the health information management A.A.S. degrees, and certificate of technology plans with a grade of C to be eligible to receive either the degree or any of the certificates.

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

**Students must be Texas Success Initiative (TSI) complete in order to graduate:

Math level 7.
Cancer Data Management Specialty (3HITT-CAN)

**Associate of Applied Science Degree**

**North Campus**

**First Term**

- HITT 1301 Health Data Content .......................................................... 3
- ITSC 1309 Integrated Software Applications I ..................................... 3
- HITT 1305 Medical Terminology ....................................................... 3
- ENGL 1301 Composition I ............................................................... 3
- Speech ......................................................................................... 3
- **Subtotal** .................................................................................. 15

**Second Term**

- HITT 1341 Coding and Classification Systems ..................................... 3
- ENGL 2311 Technical Report Writing ................................................ 3
- HPRS 2301 Pathophysiology ............................................................. 3
- HITT 1345 Health Care Delivery Systems ......................................... 3
- HITT 1374 Anatomy and Physiology ................................................ 3
- **Subtotal** .................................................................................. 15

**PostY1Summer**

- HITT 1353 Legal and Ethical Aspects of Health Information ............... 3
- **Subtotal** .................................................................................. 3

**Third Term**

- PHED Activity ............................................................................... 1
- HITT 1311 Health Information Systems ............................................. 3
- HITT 1307 Cancer Data Management I ............................................. 3
- PSYC 2301 General Psychology ...................................................... 3
- **Math or Natural Science** ............................................................. 3
- **Subtotal** .................................................................................. 13

**Fourth Term**

- HITT 2343 Quality Assessment and Performance Improvement ....... 3
- HITT 2307 Cancer Data Management II .......................................... 3
- HITT 2339 Health Information Organization and Supervision .......... 3
- HITT 2370 Cancer Data Management III ........................................ 3
- PHED Activity ............................................................................... 1
- **Humanities or Fine Arts** ............................................................ 3
- **Subtotal** .................................................................................. 16

**PostY2Summer**

- HITT 1361 Clinical - Health Information/Medical Records Technology/Technician .......................................................... 3
- **Subtotal** .................................................................................. 3
- **Associate of Applied Science Degree Total** ................................ 65

**External Learning Experience: HITT 1361 Certification Exam: CTR National Certification Exam**

*Note: This is a new exit point recommended by advisory committee to address the CTR National Certification.*

*Note: Students must pass each HITT and HPRS course listed in the health information management A.A.S. degrees, and certificate of technology plans with a grade of C to be eligible to receive either the degree or any of the certificates.*

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

**Students must be Texas Success Initiative (TSI) complete in order to graduate:** Math level 7.

**Cancer Data Management (4HITT-CAN)**

**Certificate of Technology**

**North Campus**

**First Term**

- HITT 1307 Cancer Data Management I ............................................ 3
- HITT 1301 Health Data Content ...................................................... 3
- HITT 1305 Medical Terminology .................................................... 3
- **SUBTOTAL** ............................................................................... 12

**Second Term**

- HITT 1374 Anatomy and Physiology ............................................... 3
- HITT 2307 Cancer Data Management II .......................................... 3
- HITT 2370 Cancer Data Management III ........................................ 3
- **SUBTOTAL** ............................................................................... 9

**Third Term**

- HITT 1361 Clinical - Health Information/Medical Records Technology/Technician .......................................................... 3
- **Subtotal** .................................................................................. 3
- **Certificate of Technology Total** ................................................. 24

**External Work 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 (4HITT-MDBC)

#### Certificate of Technology

**North Campus**

<table>
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<tr>
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<tbody>
<tr>
<td>HITT 1305 Medical Terminology</td>
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<tr>
<td>HPRS 2301 Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>HITT 1378 Medical Insurance</td>
<td>3</td>
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<tr>
<td>HITT 1301 Health Data Content and Structure</td>
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<td><strong>SUBTOTAL</strong></td>
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<table>
<thead>
<tr>
<th>Second Term</th>
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<tbody>
<tr>
<td>HITT 1341 Coding and Classification Systems</td>
<td>3</td>
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<tr>
<td>HITT 2346 Advanced Medical Coding</td>
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<tr>
<td>HITT 1353 Legal and Ethical Aspects of Health Information</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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<thead>
<tr>
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<tbody>
<tr>
<td>HITT 1377 Clinical - Medical Billing</td>
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<td><strong>SUBTOTAL</strong></td>
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</table>

Note: Students must pass each HITT and HPRS course listed in all health information management A.A.S. degrees, and certificate of technology plans with a grade of C to be eligible to receive either the degree or any of the certificates.

### Instrumentation Technology

#### Instrumentation Technology (3INST)

**Associate of Applied Science Degree**

**Central Campus**

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 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 10-station SLC 5/03 Programmable Logic Controller (PLC) lab and a 10-station Emerson Process Management DeltaV Distributed Control System (DCS) lab with 10 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 powerplants, and in manufacturer field technician positions.

### First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>INTC 1312 Instrumentation and Safety</td>
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</tr>
<tr>
<td>INTC 1301 Principles of Industrial Measurements I</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 1311 Basic Electrical Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENLT 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>*MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
<td>3</td>
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<td>PHED Activity</td>
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<tbody>
<tr>
<td>INTC 1315 Final Control Elements</td>
<td>3</td>
</tr>
<tr>
<td>INTC 1322 Analog Electronic Instrumentation I</td>
<td>3</td>
</tr>
<tr>
<td>INTC 2310 Principles of Industrial Measurements II</td>
<td>3</td>
</tr>
<tr>
<td>ENLT 2311 Technical Report Writing</td>
<td>3</td>
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<td>3</td>
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<tr>
<td>PHED Activity</td>
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<td><strong>SUBTOTAL</strong></td>
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### Third Term

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
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<td>3</td>
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<tr>
<td>INTC 1350 Digital Measurement and Controls</td>
<td>3</td>
</tr>
<tr>
<td>INTC 1353 Analog Electronic Instrumentation II</td>
<td>3</td>
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<tr>
<td>INTC 1355 Unit Operations</td>
<td>3</td>
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<tr>
<td>INTC 1375 Sample Systems, or</td>
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<tr>
<td>INTC 2339 Instrument and Control Review or INTC 2388 Internship Instrumentation Technology/Technician</td>
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<tr>
<td>Speech</td>
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<table>
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<tr>
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<tr>
<td>INTC 2336 Distributed Controls and Programmable Logic</td>
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<tr>
<td>INTC 1348 Analytical Instrumentation</td>
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<td>INTC 2330 Troubleshooting</td>
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<td>INTC 2333 Instrumentation Systems Installation</td>
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**Associate of Applied Science Degree Total** 68

**Capstone Experience: INTC 2359**

* 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:**

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### Certificate of Technology

#### Central Campus

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<tr>
<td>INTC 1312 Introduction to Instrumentation and Safety</td>
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<tr>
<td>INTC 1301 Principles of Industrial Measurements I</td>
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<td>ENLT 1311 Basic Electrical Theory</td>
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<td>INTC 1322 Analog Controls I</td>
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<tr>
<td>INTC 1341 Principles of Automatic Control</td>
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<td>INTC 1350 Digital Measurement and Controls</td>
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<td>INTC 1353 Analog Controls II</td>
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<td>INTC 2359 Distributive Control Systems</td>
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<tr>
<td>INTC 2333 Instrumentation and Installation</td>
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**Certificate of Technology Total** 36

**Capstone Experience: INTC 2359**
## Instrumentation Technology (MINST)

### Instrumentation Analyzer Marketable Skills Achievement Award

**Central Campus**

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<td>INTC 1375 Sample Systems</td>
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<td>INTC 1348 Analytical Instrumentation</td>
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Marketable Skills Achievement Award Total 10

### Instrumentation Technology

#### Certificate of Technology

**Central Campus**

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<td>INTC 1001 Principles of Industrial Measurement</td>
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<td>INTC 1003 Introduction to Instrumentation</td>
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<td>INTC 1043 Application of Industrial Automatic Controls</td>
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<td>INTC 1071 Mounted Instruments</td>
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<td>INTC 1056 Instrumentation Calibration</td>
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<td>INTC 2031 Instrumentation Trouble Shooting</td>
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Certificate of Technology Total 558

Capstone Experience: INTC 2031

#### Instrumentation Power Generation Technician Specialty (3INST-PWRG)

#### Associate of Applied Science Degree

**Central Campus**

<table>
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<tr>
<td>ELMT 2351 Power Generation Fundamentals</td>
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<tr>
<td>Math 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
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<td>ITSC 1309 Integrated Software Application I or BCIS 1305 Business Computer Applications</td>
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<td>OSHT 1320 Energy Industrial Safety</td>
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**Second Term**

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<tr>
<td>ENGL 1301 Composition I</td>
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<td>ENER 1330 Basic Mechanical Skills for Energy</td>
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<td>CETT 1325 Digital Fundamentals</td>
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<td>INTC 1301 Principles of Industrial Measurements I</td>
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**SUBTOTAL** 16

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<td>SCIT 1418 Applied Physics or CTEC 1401 Applied Petrochemical Technology</td>
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<td>SPCH 1321 Business &amp; Professional Speech</td>
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<tr>
<td>INTC 1312 Instrumentation &amp; Safety</td>
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**SUBTOTAL** 16

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<tr>
<th>Fourth Term</th>
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<tr>
<td>ENGL 2311 Technical Report Writing</td>
<td>3</td>
</tr>
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<td>INTC 1315 Final Control Elements</td>
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<tr>
<td>INTC 2310 Principles of Industrial Measurements II</td>
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</tr>
<tr>
<td>INTC 2336 Distributed Controls and Programmable Logic; or INTC 2359 Distributed Control Systems; or INTC 2388 Internship Instrumentation Technology/Technician</td>
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**SUBTOTAL** 12

**Associate of Applied Science Degree Total** 63

Capstone Experience: INTC 2336 or INTC 2359 or INTC 2388

*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.*

### Instrumentation Power Generation Technician Specialty (4INST-PWRG)

#### Certificate of Technology

**Central Campus**

<table>
<thead>
<tr>
<th>Credit</th>
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<tr>
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<tr>
<td>INTC 1301 Principles of Industrial Measurements I</td>
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<tr>
<td>INTC 1312 Instrumentation and Safety</td>
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**SUBTOTAL** 15
Second Term

INTC 1315 Final Control Elements ................................................. 3
INTC 2310 Principles Industry Measure II ...................................... 3
INTC 1341 Principles-Automatic Control ....................................... 3
INTC 2336 Distributed Control and Programmable Logic or
   INTC 2359 Distributed Control Systems or
   INTC 2388 Internship-Instrumentation Technology/Technician .. 3

SUBTOTAL 12
Certificate of Technology Total 27
Capstone Experience: ELPT 2319 or INTC 2359 or INTC 2388

Instrumentation-Analytical (6INST-ANLY)

Occupational Certificate

Central Campus

First Term

SCIT 1414 Applied General Chemistry I ......................................... 4
INTC 1375 Sample Systems .......................................................... 3
INTC 1348 Analytical Instrumentation ........................................... 3

SUBTOTAL 10

Second Term

INTC 2388 Internship-Instrumentation Technology/Technician or
   CPMT 1349 Computer Networking Technology or
   CTEC 1401 Applied Petrochemical Technology or
   PHYS 1401 College Physics I .................................................. 3

EPCT 1349 Environmental Regulations Interpretation
   and Applications ........................................................................ 3

INTC 2345 Advanced Analyzers ..................................................... 3
INTC 2374 Physical Properties Analyzers ...................................... 3

SUBTOTAL 12

Occupational Certificate Total 22

Interior Design

Interior Design (3INT-DSGN)

Associate of Applied Science Degree

Central Campus

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 Sept. 1, 2006, must graduate from a program approved by FIDER.

First Term

INDS 1411 Fundamentals 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

SUBTOTAL 17

Second Term

INDS 1449 Fundamentals of Space Planning ................................. 4
INDS 1452 History of Interiors II .................................................. 4
INDS 2421 Presentation Drawing .................................................. 4
DFTG 1417 Arch Drafting - Residential ......................................... 4

PHED Activity ............................................................................. 1

SUBTOTAL 17

PostY1Summer

*Humanities or Fine Arts ............................................................... 3

SUBTOTAL 3

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 or
   MATH 1314 College Algebra .................................................... 3

SUBTOTAL 18

Fourth Term

INDS 2435 Residential Design II ................................................... 4
INDS 2425 Professional Practices for Interior Design ...................... 4
INDS 2386 Internship - Interior Design ......................................... 3

*Behavioral or Social Sciences ....................................................... 3

SPCH 1315 Public Speaking or
   1321 Business and Professional Speech .................................... 3

SUBTOTAL 17

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 (4INTD-DSGN)

### Certificate of Technology

**Central Campus**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND 1411 Fundamentals Interior Design</td>
<td>4</td>
</tr>
<tr>
<td>IND 1451 History of Interiors I</td>
<td>4</td>
</tr>
<tr>
<td>IND 2407 Textiles for Interior Design</td>
<td>4</td>
</tr>
<tr>
<td>DFTG 1413 Drafting for Specific Occupations or 1417 Architectural Drafting - Residential</td>
<td>4</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFTG 1409 Basic computer-Aided Drafting</td>
<td>4</td>
</tr>
<tr>
<td>IND 1449 Fundamentals of Space Planning</td>
<td>4</td>
</tr>
<tr>
<td>IND 1452 History of Interiors II</td>
<td>4</td>
</tr>
<tr>
<td>IND 1415 Materials Methods and Estimating</td>
<td>4</td>
</tr>
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<td><strong>SUBTOTAL</strong></td>
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<table>
<thead>
<tr>
<th>Third Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND 2421 Presentation Drawing</td>
<td>4</td>
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<tr>
<td>IND 2413 Residential Design I</td>
<td>4</td>
</tr>
<tr>
<td>IND 2425 Professional Practices for Interior Design</td>
<td>4</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td>12</td>
</tr>
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</table>

**Certificate of Technology Total** 16

**Capstone Experience: IND 2413**

### Professional Credential in Interior Design

**Central Campus**

The Interior Design AAS degree and the following courses are required for The Professional Credential in Interior Design.

<table>
<thead>
<tr>
<th>Fifth Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFTG 2428 Architectural Drafting - Commercial</td>
<td>4</td>
</tr>
<tr>
<td>IND 2405 Interior Design Graphics</td>
<td>4</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Sixth Term</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>IND 2387 Internship - Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>DFTG 1409 Basic computer-Aided Drafting or DFTG 2419 Intermediate Computer-Aided Drafting or DFTG 2432 Advanced Computer-Aided Drafting</td>
<td>4</td>
</tr>
<tr>
<td>IMED 1341 Interface Design or ARTS 1316 Drawing I</td>
<td>3</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td>10</td>
</tr>
</tbody>
</table>

**Professional Credential Total** 18

**Capstone Experience: IND 2405**

Approved Electives:

- DFTG 1409
- DRTG 2419
- DRTG 2432

## Interior Decorator I (6INT-DDI)

### Occupational Certificate

**Central Campus**

This certificate is designed for the individual student that is seeking interior design education for their own personal use or as an interior design enthusiast.

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND 1411 Fundamentals of Interior Design</td>
<td>4</td>
</tr>
<tr>
<td>IND 1451 History of Interiors I</td>
<td>4</td>
</tr>
<tr>
<td>IND 2407 Textiles For Interior Design</td>
<td>4</td>
</tr>
<tr>
<td>DFTG 1405 Technical Drafting or DFTG 1413 Drafting for Specific Occupations</td>
<td>4</td>
</tr>
<tr>
<td><strong>Occupational Certificate Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

**Capstone: IND 2407**

## Interior Decorator II (6INT-DDII)

### Occupational Certificate

**Central Campus**

This certificate coupled with the INTERIOR DECORATOR I certificate is designed for the para-professional that seeks interior design education to enhance their skills in interior design related occupations such as real estate staging, project management, building and contracting, and other interior design related professions.

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND 1415 Materials, Methods and Estimating</td>
<td>4</td>
</tr>
<tr>
<td>IND 1449 Fundamentals of Space Planning</td>
<td>4</td>
</tr>
<tr>
<td>IND 1452 History of Interiors II</td>
<td>4</td>
</tr>
<tr>
<td>IND 2421 Presentation Drawing</td>
<td>4</td>
</tr>
<tr>
<td><strong>Occupational Certificate Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

**Capstone: IND 2405**

## International Business, Logistics, and Maritime

The International Business, Logistics, and Maritime program is designed to prepare students for careers in the international trade community. Graduates will work as specialists in importing and exporting, administrative service managers, sales supervisors, wholesale and retail buyers, purchasing agents, importing and exporting trade compliance officers, transportation supervisors and wholesale representatives. Students successfully completing the program will develop a strong background in import and export manage-
International Business and Logistics (3INTL-LOG)

Associate of Applied Science Degree

North Campus

First Term

IBUS 1305 Introduction to International Business and Trade .......... 3
IBUS 1301 Principles of Exports .................................................... 3
IBUS 1341 Global Supply Chain Management ............................... 3
IBUS 1302 Principles of Imports .................................................... 3
IBUS 2345 Import Customs Regulations ........................................ 3
SUBTOTAL 15

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
SUBTOTAL 12

Post-Year 1 Summer Session

IBUS 2367 Practicum (or Field Experience) - International Business/Trade/Commerce .................................................... 3
SUBTOTAL 3

Third Term

MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra .................................................... 3
ENGL 1301 Composition I ............................................................. 3
GEOG 1303 World Geography ....................................................... 3
SOCI 1301 Introduction to Sociology .............................................. 3
BCIS 1305 Business Computer Applications .................................... 3
PHED Activity ................................................................................ 1
SUBTOTAL 16

Fourth Term

ACNT 1303 Introduction to Accounting or ACCT 2301 Accounting Principles I .................................................... 3
ENGL 1302 Composition II or ENGL 2311 Technical Report Writing .................................................... 3
PHED Activity ................................................................................ 1
SPCH 1321 Business and Professional Speech .................................. 3
*Humanities or Fine Arts .................................................................. 3
HRPO 1311 Human Relations ......................................................... 3
SUBTOTAL 16

Associate of Applied Science Degree Total 62

External Work 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 Logistics (4INTL-LOG)

Certificate of Technology

North Campus

First Term

IBUS 1305 Introduction to International Business and Trade .......... 3
IBUS 1301 Principles of Exports .................................................... 3
IBUS 1341 Global Supply Chain Management ............................... 3
IBUS 1302 Principles of Imports .................................................... 3
IBUS 2345 Import Customs Regulations ........................................ 3
SUBTOTAL 15

Second Term

IBUS 2366 Field Experience - International Business/Trade/Commerce .................................................... 3
HMSY 1337 Introduction to Homeland Security .................................. 3
IBUS 1354 International Marketing ................................................ 3
IBUS 1300 Global Logistics Management ........................................ 3
SUBTOTAL 12

Post-Year 1 Summer Session

IBUS 2367 Practicum (or Field Experience) - International Business/Trade/Commerce .................................................... 3
SUBTOTAL 3

Third Term

IBUS 2366 Field Experience - International Business/Trade/Commerce .................................................... 3
HMSY 1337 Introduction to Homeland Security .................................. 3
IBUS 1354 International Marketing ................................................ 3
IBUS 1300 Global Logistics Management ........................................ 3
SUBTOTAL 12

Post-Year 1 Summer Session

IBUS 2367 Practicum (or Field Experience) - International Business/Trade/Commerce .................................................... 3
SUBTOTAL 3

Certificate of Technology Total 30

External Learning Experience: IBUS 2367
### International Business and Logistics (6INTL-LOG)

#### Occupational Certificate

**North Campus**

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBUS 1301 Principles of Exports</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 1302 Principles of Imports</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 1305 Intro International Business and Trade</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 1341 Global Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 2345 Import Customs Regulations</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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**Second Term**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>IBUS 2366 Practicum (or Field Experience) - International Business/Trade/Commerce</td>
<td>3</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</table>

**Occupational Certificate Total** 18

**Capstone Course: IBUS 2366**

### International Business Maritime and Logistics Specialty (3INTL-MAR)

#### Associate of Applied Science Degree

**North Campus**

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MART 1471 Introduction to Ships and Shipping</td>
<td>4</td>
</tr>
<tr>
<td>IBUS 1301 Principles of Exports</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 1302 Principles of Imports</td>
<td>3</td>
</tr>
<tr>
<td>LMGT 1319 Introduction to Business Logistics</td>
<td>3</td>
</tr>
<tr>
<td>LMGT 1345 Economics of Transportation and Distribution</td>
<td>3</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>16</strong></td>
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</table>

**Second Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMSY 1337 Introduction to Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 1300 Global Logistics Management</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 1341 Global Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>LMGT 1325 Warehouse and Distribution Center Management</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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**PostY1Summer**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>IBUS 2345 Import Customs Regulations</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 2367 Practicum (or Field Experience) - International Business/Trade/Commerce</td>
<td>3</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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**Capstone Course: IBUS 2366**

### Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td><em>Math 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</em></td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 1301 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>BCIS 1305 Business Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 1303 World Geography</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>16</strong></td>
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</table>

### Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ACNT 1303 Introduction to Accounting I or ACCT 2301 Accounting Principles I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1302 Composition II or ENGL 2311 Technical Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1321 Business and Professional Speech</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
</tr>
<tr>
<td>**<strong>Humanities or Fine Arts</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

**Associate of Applied Science Degree Total 63**

**External Field Experience: IBUS 2367**

*Students desiring to obtain a baccalaureate degree should take Math 1314-College Algebra.*

**Certificate of Technology 34**

### Maritime and Logistics Specialty (4INTL-MAR)

#### Certificate of Technology

**North Campus**

**First Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MART 1471 Introduction to Ships and Shipping</td>
<td>4</td>
</tr>
<tr>
<td>IBUS 1301 Principles of Exports</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 1302 Principles of Imports</td>
<td>3</td>
</tr>
<tr>
<td>LMGT 1319 Introduction to Business Logistics</td>
<td>3</td>
</tr>
<tr>
<td>LMGT 1345 Economics of Transportation and Distribution</td>
<td>3</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Second Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMSY 1337 Introduction to Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 1300 Global Logistics Management</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 1341 Global Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>LMGT 1325 Warehouse and Distribution Center Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
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**PostY1Summer**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>IBUS 2345 Import Customs Regulations</td>
<td>3</td>
</tr>
<tr>
<td>IBUS 2367 Practicum (or Field Experience) - International Business/Trade/Commerce</td>
<td>3</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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</tbody>
</table>

**Certificate of Technology Total 34**

**External Field Experience: IBUS 2367**
Maritime and Logistics Specialty (6INTL-MAR)

Occupational Certificate

North Campus

First Term                   Credit
MART 1471 Introduction to Ships and Shipping ...................... 4
IBUS 1301 Principles of Exports ........................................ 3
IBUS 1302 Principles of Imports ........................................ 3
LMGT 1319 Introduction to Business Logistics ...................... 3
LMGT 1345 Economics of Transportation and Distribution .......... 3
Occupational Certificate Total 16

Capstone Experience: LMGT 1345

Law Enforcement

See Criminal Justice

Legal Assistant

See Paralegal

Long Term Care Administration

Long Term Care Administration (4LTRM-CARE)

Certificate of Technology

Central Campus

First Term                   Credit
LTCA 1312 Resident Care in the Long Term Care Facility ............ 3
LTCA 2314 Long Term Care Law ........................................... 3
LTCA 2488 Internship - Health Care Facilities ..................... 4
SUBTOTAL                   10

Second Term                 Credit
LTCA 1313 Organization and Management of Long Term Care Facilities .................................................. 3
LTCA 2315 Financial Management of Long Term Care Facilities .... 3
LTCA 2489 Internship - Hospital and Health Care Facilities Administration/Management .................................. 4
HRPO 1311 Human Relations .................................................. 3
SUBTOTAL                   13

Third Term                  Credit
LTCA 2388 Internship - Hospital and Health Care Facilities Administration/Management .................................. 3
SUBTOTAL                   3

Certificate of Technology Total 26

Management Development

See Business Management

Massage Therapy

See Cosmetology

Medical Assisting

Medical Assistant (4MED-ASST)

Certificate of Technology

North Campus

The Medical Assisting program is designed to train medical assistant personnel to perform both administrative and clinical duties and to report directly to an office manager, physician, or other health practitioner. Administrative duties may include answering telephones, greeting patients, updating and filing patient medical records, filling out insurance forms, scheduling appointments, handling billing and bookkeeping. Clinical duties vary according to state law including taking medical histories and recording vital signs, explaining treatment procedures to patients, preparing patients for examination, and assisting physicians during examination. The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in cooperation with the American Association of Medical Assistant Endowment. Students are eligible to apply to write the national exam for the CMA after completion of the medical assisting certificate of technology.

First Term                   Credit
HPRS 1106 Essentials - Medical Terminology .......................... 1
HPRS 1271 Medical Terminology ........................................... 2
MDCA 1302 Human Dis/Pathophysiology .................................. 3
MDCA 1309 Anatomy and Physiology ..................................... 3
MDCA 1421 Administrative Procedures .................................... 4
MDCA 1343 Medical Insurance ............................................. 3
SUBTOTAL                   16

Second Term                 Credit
MDCA 1305 Medical Law & Ethics ......................................... 3
BUSI 1304 Business Report Writing and Correspondence ........... 3
MDCA 1348 Pharmacology and Administration of Medications ...... 3
MDCA 1310 Interpersonal and Comm Skills ............................. 3
MDCA 1417 Procedures in a Clinical Setting ............................ 4
SUBTOTAL                   16
Technical Programs

PostY1Summer Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>MDCA 1254 Certified Medical Assistant Exam Review</td>
<td>2</td>
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<tr>
<td>MDCA 1560 Clinical</td>
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<td><strong>Subtotal</strong></td>
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<tr>
<td><strong>Certificate of Technology Total</strong></td>
<td><strong>39</strong></td>
</tr>
</tbody>
</table>

External Experience: MDCA 1560

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

Central Campus

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.

Medical Radiography

Purpose Statement:

The purpose of the medical radiography department is to educate and train students for entry level employment in radiography.

The student goals for the Medical Radiography Program are as follows:

- Students will be clinically competent.
- Students will possess critical thinking skills.
- Students will communicate effectively.
- Students will demonstrate professionalism.

The student learning outcomes for the Medical Radiography Program are as follows:

- Students will demonstrate appropriate patient care.
- Students will accurately set technical factors for radiographic examinations.
- Students will properly position patients for radiographic examinations.
- Students will demonstrate proper radiation safety.
- Students will demonstrate the ability to modify imaging examinations for non-routine patients.
- Students will critique images for diagnostic quality.
- Students will demonstrate effective oral communication skills.
- Students will demonstrate effective written communication skills.
- Students will demonstrate ethical behavior.
- Students will demonstrate professional behavior.

The Medical Radiography Program at San Jacinto College is accredited by the Joint Review Committee on Education in Radiologic Technology.

Joint Review Committee on Education in Radiologic Technology

20 North Wacker Driver, Suite 2850
Chicago, IL 60606-3182
Phone: 312.704.5300
Email: mail@jrcert.org
Web: www.jrcert.org

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 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. The student may appeal to the medical imaging appeals committee to be admitted back into the program after a “3 Strikes” suspension.

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 overall highest grade point average from any accredited institution, dependent upon the option under which they apply (Option A or Option B). In the case of a tie, the student with the most coursework completed will be selected for admission.

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 a minimum of nine semester hours from an accredited institution as specified below with no grade lower than C. MATH 1314 or MATH 1333 must be taken as part of this nine hour requirement and the other six may come from courses as stated below.

ITSC 1309, Speech, ENGL 1301, Humanities/Visual or Performing Arts, PSYC 2301

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. All documents must be received by the end of the application dates listed below.

Application Periods:
April 1 through June 1, for Fall admission; and September 1 through November 1, for Spring admission. Students seeking admission to the medical imaging program who have previously earned more than one grade of D or F in another institution’s medical imaging program may not be eligible for admission.

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 re-apply to be considered in the future. Applicants who are accepted for admission into the medical radiography program, but who do not enroll, must also re-apply.

Medical Radiography (3MED-RAD)

Associate of Applied Science Degree

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>RADR 1260 Clinical - Medical Radiologic Technology I</td>
<td>2</td>
</tr>
<tr>
<td>RADR 1309 Introduction to Radiography and Patient Care</td>
<td>3</td>
</tr>
<tr>
<td>RADR 1313 Principles of Radiographic Imaging I</td>
<td>3</td>
</tr>
<tr>
<td>RADR 1317 Radiographic Anatomy and Physiology I</td>
<td>3</td>
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<tr>
<td>RADR 1411 Basic Radiographic Procedures</td>
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<tr>
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<tr>
<td>RADR 1360 Clinical - Medical Radiologic Technology II</td>
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<tr>
<td>RADR 1318 Radiographic Anatomy and Physiology II</td>
<td>3</td>
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<td>RADR 2401 Intermediate Radiographic Procedures</td>
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<td>RADR 2305 Principles of Radiographic Imaging II</td>
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<td>RADR 2360 Clinical - Medical Radiologic Technology III</td>
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<td>RADR 2309 Radiographic Imaging Equipment</td>
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<th>Credit</th>
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<tbody>
<tr>
<td>RADR 2333 Advanced Medical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>RADR 2361 Clinical - Medical Radiologic Technology IV</td>
<td>3</td>
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<tr>
<td>Behavioral or Social Science</td>
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<tr>
<td>ENGL 1301 Composition I</td>
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<tr>
<td>Speech</td>
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<table>
<thead>
<tr>
<th>Fourth Term</th>
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<tbody>
<tr>
<td>RADR 2213 Radiation Biologic Effects and Protection</td>
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<td>RADR 2362 Clinical - Medical Radiologic Technology V</td>
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<td>ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications</td>
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</table>
Diagnostic Medical Sonography (3MED-SONO)

Associate of Applied Science Degree

Central Campus

A Medical Sonographer is a person qualified to provide patient imaging using ultrasound under the supervision of a medical doctor. The Diagnostic Medical Sonography Program prepares students to work in entry-level positions in hospitals and other health care facilities. Upon completion of the curriculum, the student is eligible to apply to take exams for the American Registry of Diagnostic Medical Sonographers (ARDMS) and/or American Registry of Radiologic Technologists (ARRT).

Admission Criteria:

A two year or higher allied health degree/certificate in a patient care related area. All applicants must have completed the prerequisite courses prior to admission.

Prerequisite Credit

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<tr>
<th>Course</th>
<th>Credit</th>
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<td>PHED Activity</td>
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<td>PSYC 2301 General Psychology</td>
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<td>ENGL 1301 Composition I</td>
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<tr>
<td>Humanities or Fine Arts</td>
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<tr>
<td>RADR 2309 Radiographic Imaging Equipment or</td>
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<tr>
<td>PHYS 1401 College Physics I</td>
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<td>MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
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<td>SPCH 1315 Public Speaking or SPCH 1318 Interpersonal Communications</td>
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First Term

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<td>DMSO 1302 Basic Ultrasound Physics</td>
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<tr>
<td>DMSO 1441 Abdominopelvic Sonography</td>
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<tr>
<td>DMSO 1351 Sonographic Sectional Anatomy</td>
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Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>DMSO 1351 Clinical II-Diagnostic Medical Sonography</td>
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</tr>
<tr>
<td>DMSO 2405 Sonography of Obstetrics/Gynecology</td>
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<tr>
<td>DMSO 2353 Sonography of Superficial Structures</td>
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</tr>
<tr>
<td>DMSO 1355 Sonographic Pathophysiology</td>
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<td>DMSO 1342 Intermediate Ultrasound Physics</td>
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Third Term

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<th>Credit</th>
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<tbody>
<tr>
<td>DMSO 2360 Clinical III-Diagnostic Medical Sonography</td>
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<tr>
<td>DMSO 2245 Advanced Sonography Practices</td>
<td>2</td>
</tr>
<tr>
<td>DMSO 2342 Sonography of High Risk Obstetrics</td>
<td>3</td>
</tr>
<tr>
<td>DMSO 2243 Advanced Ultrasound Principles and Instrumentation</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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Fourth Term

<table>
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<tr>
<th>Course</th>
<th>Credit</th>
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<tr>
<td>DMSO 2462 Clinical - Diagnostic Medical Sonography/Technician</td>
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<tr>
<td>DMSO 1391 Special Topics in Sonography</td>
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<tr>
<td>DMSO 2357 Advanced Ultrasound Professionalism and Registry Review</td>
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Occupational Certificate

Central Campus

Magnetic Resonance Imaging (6MRAD-MRI)

Occupational Certificate Total 15

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 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.

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

Computed Tomography (EMRAD-CT)

Enhanced Skills Certificate

Applicants must be ARRT registered in Radiography, Nuclear Medicine, Radiation Therapy or hold NMTCB certified.

First Term Credit

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
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<tbody>
<tr>
<td>RADR 2340 Sectional Anatomy for Medical Imaging</td>
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<tr>
<td>CTMT 2336 Computed Tomography Equipment and Med</td>
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<tr>
<td>CTMT 2360 Clinical - Computed Tomography Technology/Technician</td>
<td>3</td>
</tr>
<tr>
<td>CTMT 2361 Clinical - Computed Tomography Technology/Technician</td>
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</table>

Enhanced Skills Certificate Total 12

Mammography Enhanced Skills Certificate (EMRAD-MAMM)

Mammography Enhanced Skills Certificate

This program is designed to prepare the registered radiologic technologist to enter the advanced field of mammography. The objective of the program is to provide the registered radiologic technologist with the training, knowledge, and skill needed to prepare for and successfully pass the mammography post primary examination offered by ARRT, in addition for entry level employment in mammography.

A mammographer uses specialized X-ray equipment to obtain diagnostic breast images and breast tissue biopsies. This specialized technologist is pivotal in the diagnosis of breast tissue abnormalities in both men and women. Students will learn to position patients and manipulate equipment to provide quality images. Furthermore, students will develop an understanding of anatomy, pathology, communication skills and specialty equipment.

The mammography courses are offered each spring and fall semester. The entire program length is 16 weeks. Lecture and laboratory are offered the first eight weeks as evening classes. Clinical rotations are offered the second eight weeks as day time rotation, averaging 20 hours a week.

Minimum Program Admission Criteria:

Applicants must be a graduate of a two-year accredited medical radiography program in Radiography, hold a ARRT certification in Radiography and a current Texas State Medical Radiologic Technologist License.

First Term Credit

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>MAMT 2333 Anatomy/Positioning &amp; Patient Assessment</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 2363 Clinical - Mammography Technology/Technician</td>
<td>3</td>
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</table>

Enhanced Skills Certificate Total 6

Capstone: MAMT 2363

Medical Laboratory Technology

Central Campus

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 Medical Laboratory Program Director or the Department Chair for Allied Health. 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 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 10 semester hours as specified below with no grade lower than C.

- BIOL 2401
- ENGL 1301
- MATH 1314 or MATH 1333

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 re-apply before the next term. Applicants who are accepted for admission to the medical laboratory technology program, but who do not enroll, must re-apply. 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.

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**Medical Laboratory Technology (3MED-LABT)**

**Associate of Applied Science Degree**

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Credit</th>
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<tr>
<td>BIOL 2402 Human Anatomy and Physiology II</td>
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<td>*MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
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**SUBTOTAL**

7
Clinical Laboratory Assistant

(6MED-CLA)

Occupational Certificate

Central Campus

<table>
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<tr>
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<th>Credit</th>
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<tbody>
<tr>
<td>HPRS 1106 Essentials of Medical Terminology</td>
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<tr>
<td>MLAB 1201 Introduction to Clinical Lab Science</td>
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<tr>
<td>PLAB 1223 Phlebotomy</td>
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<td>MLAB 1415 Hematology</td>
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<tr>
<td>ENGL 1301 Composition I</td>
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<tr>
<td>BIOL 2401 Human Anatomy and Physiology I</td>
<td>4</td>
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<tr>
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Second Term

<table>
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<tr>
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<th>Credit</th>
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<tbody>
<tr>
<td>MLAB 1227 Coagulation</td>
<td>2</td>
</tr>
<tr>
<td>MLAB 1235 Immunology/Serology</td>
<td>2</td>
</tr>
<tr>
<td>MLAB 1311 Urinalysis and Body Fluids</td>
<td>3</td>
</tr>
<tr>
<td>MLAB 2434 Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>SCIT 1495 Special Topics in Analytical Chemistry</td>
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PostY1Summer

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<tr>
<td>MLAB 2166 Practicum I - Medical laboratory Technician</td>
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<tr>
<td>MLAB 2431 Immunohematology</td>
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Third Term

<table>
<thead>
<tr>
<th>First Term</th>
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<tbody>
<tr>
<td>MLAB 1231 Parasitology/Mycology</td>
<td>2</td>
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<tr>
<td>MLAB 2266 Practicum II - Medical Laboratory Technician</td>
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<td>MLAB 2501 Chemistry</td>
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<td>ITSC 1309 Integrated Software Applications</td>
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<td>Speech</td>
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Fourth Term

<table>
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<tbody>
<tr>
<td>MLAB 2338 Advanced Topics in Medical Laboratory Technician</td>
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<td>MLAB 2267 Practicum III - Medical Laboratory Technician</td>
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<td>PSYC 2301 General Psychology</td>
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<td><strong>Humanities or Fine Arts</strong></td>
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<tr>
<td>PHED Activity</td>
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</table>

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.

Mental Health Services

North Campus

Mental health technician training prepares students to care for mentally impaired or emotionally disturbed individuals following physician instructions and hospital procedures. Potential work opportunities include:

- Aides within inpatient/outpatient psychiatric facilities
- Day treatment centers
- Counseling centers
- Rehabilitation facilities

The mental health services program is designed to train mental health technicians and prepare individuals to meet the requirements for testing as a Licensed Chemical Dependency Counselor (L.C.D.C.). Each program offers a practicum class which allows students to apply classroom skills in a treatment setting.

The Mental Health Technician (Psychiatric Aide/Technician) Certificate of Technology prepares students to work with disturbed individuals following physician instructions and hospital procedures. Psychiatric aides and technicians observe and record patient behavior and present findings to counselors, nurses, and other professional staff. They intervene in crisis situations, actively moderate client behavior, and assist with feeding, moving, dressing patients, personal hygiene, and activities of daily living.

The Substance Abuse Counseling Certificate of Technology prepares individuals to enter the field of human services and provide specialized services to individuals and their families experiencing the effects of substance abuse. Graduates will be able to identify appropriate assessments, diagnosis, and treatment of individuals who are, or have been, engaged
in substance abuse. The program, plus 4,000 hours of work experience, provides individuals with the necessary educational and employment requirements to become eligible for testing as a Licensed Chemical Dependency Counselor (L.C.D.C.).

The combination of the certificates of technology and general education leads to an Associate of Applied Science in mental health clinical and counseling psychology. Students who do not have an associate degree (or higher) in a behaviorally related field will not be eligible for full licensure in the State of Texas. An associate degree (or higher) is required for full licensure. A student can complete the certificate of technology course work, enter the workforce as a counseling intern and continue course work towards an associate degree before receiving their L.C.D.C.

### Mental Health Clinical and Counseling Psychology (3MH-PSYC)

#### Associate of Applied Science Degree

<table>
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<th>Credit</th>
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<tbody>
<tr>
<td>BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I</td>
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**SUBTOTAL** 3

#### First Term

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<td>SOCW 2361 Introduction to Social Work</td>
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<tr>
<td>PSYC 2301 General Psychology</td>
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<tr>
<td>ENGL 1301 Composition I</td>
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<td>PSYT 1371 Mental Health Legal and Ethics Issues</td>
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<td>Physical Activity</td>
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<tr>
<td>CMSW 1341 Behavior Modification and Cognitive Disorders</td>
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**SUBTOTAL** 16

#### Second Term

<table>
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<tr>
<td>Physical Activity</td>
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<td>PSYT 2331 Abnormal Psychology</td>
<td>3</td>
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<tr>
<td>SCWK 2301 Assessment and Case Management</td>
<td>3</td>
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<tr>
<td>PSYT 1471 Basic Nursing Skills for Mental Health/Psychiatric Technicians</td>
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<tr>
<td>PSYT 2301 Psychology of Group Dynamics</td>
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**SUBTOTAL** 14

#### PostY1Summer

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMHS 2366 Practicum - Psychiatric/Mental Health Services Technician</td>
<td>3</td>
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</table>

**SUBTOTAL** 3

#### Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Humanities or Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2307 Addicted Family Intervention</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2341 Counseling Alcohol and Other Drug Addictions</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1302 Composition II or ENGL 2311 Technical Report Writing</td>
<td>3</td>
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</table>

**SUBTOTAL** 12

#### PostY2Summer

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>DAAC 2366 Practicum - Substance Abuse/Addiction Counseling</td>
<td>3</td>
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</table>

**SUBTOTAL** 3

#### Associate of Applied Science Degree Total 66

**Capstone Experience:** PMHS 2366 and DAAC 2366

### Mental Health Technician (4MH-TECH)

#### Certificate of Technology

**North Campus**

#### First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCW 2361 Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2301 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>PSYT 1371 Mental Health Legal and Ethics Issues</td>
<td>3</td>
</tr>
<tr>
<td>CMSW 1341 Behavior Modification and Cognitive Disorders</td>
<td>3</td>
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**SUBTOTAL** 15

#### Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>PSYT 2331 Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SCWK 2301 Assessment and Case Management</td>
<td>3</td>
</tr>
<tr>
<td>PSYT 1471 Basic Nursing Skills for Mental Health/Psychiatric Technicians</td>
<td>4</td>
</tr>
<tr>
<td>PSYT 2301 Psychology of Group Dynamics</td>
<td>3</td>
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</table>

**SUBTOTAL** 16

**Certificate of Technology Total** 34

**Capstone Experience:** PMHS 2366
### Substance Abuse Counseling (4MH-SAC)

#### Certificate of Technology

**North Campus**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCW 2361 Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 1311 Counseling Theories</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 1304 Pharmacology of Addiction</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2301 General Psychology</td>
<td>3</td>
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<tr>
<td>PSYT 1371 Mental Health Legal and Ethics Issues</td>
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**SUBTOTAL** 15

<table>
<thead>
<tr>
<th>Second Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYT 2331 Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2307 Addicted Family Intervention</td>
<td>3</td>
</tr>
<tr>
<td>CMSW 1341 Behavior Modification and Cognitive Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SCWK 2301 Assessment and Case Management</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2341 Counseling Alcohol and Other Drug Addictions</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2366 Practicum - Substance Abuse/Addiction Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

**SUBTOTAL** 18

**Certificate of Technology Total** 36

**Capstone Experience:** DAAC 2366

#### Mental Health-Substance Abuse Counseling (6MH-SAC)

**Occupational Certificate**

**North Campus**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAAC 1311 Counseling Theories</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2341 Cnsling Alchl &amp; Drug Addictns</td>
<td>3</td>
</tr>
<tr>
<td>PSYT 1371 Mentl Hlth Legal &amp; Ethical Iss</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 1304 Pharmacology of Addiction</td>
<td>3</td>
</tr>
<tr>
<td>CMSW 1341 Behavior Modification and Cognitive Disorder or DAAC 2307 Addicted Family Intervention or SCWK 2301 Assessment and Case Management</td>
<td>3</td>
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<tr>
<td>DAAC 2366 Practicum Subst Abuse Counsel</td>
<td>3</td>
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</tbody>
</table>

**Occupational Certificate Total** 18

**Capstone Experience:** DAAC 2366 - Practicum (or Field Experience) - Substance Abuse/Addiction

**Approved Electives**

- CMSW 1341
- DAAC 2307
- SCWK 2301

---

### Music

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.

#### Music Recording (3MUS-RCRD)

**Associate of Applied Science Degree**

**Central Campus**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MUSI 1181 Class Piano I</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 1327 Audio Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>MUSI 1301 *Music Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
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<tr>
<td>PHED Activity</td>
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**SUBTOTAL** 14

<table>
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<tr>
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<th>Credit</th>
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<tbody>
<tr>
<td>ENGL 1302 Composition II or ENGL 2311 Technical Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 1331 Musical Instrument Digital Interface</td>
<td>3</td>
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<tr>
<td>MUSC 2427 Audio Engineering II</td>
<td>4</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
</tr>
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</table>

**SUBTOTAL** 11

**Prerequisite**

- MATH 1314 College Algebra | 3
- MUSC 2101 Audio Engineering Practices | 1
- **Behavioral or Social Sciences | 3

**SUBTOTAL** 7

<table>
<thead>
<tr>
<th>Third Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>MUSC 2355 Musical Instrument Digital Interface II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 2101 Audio Engineering Practices</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 2447 Audio Engineering III</td>
<td>4</td>
</tr>
<tr>
<td>MUSI 1211 Theory of Music I</td>
<td>2</td>
</tr>
<tr>
<td>MUSI 1216 Ear Training Sight Singing I</td>
<td>2</td>
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</table>

**SUBTOTAL** 12
### Fourth Term

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
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<tbody>
<tr>
<td>MUSB 1305 Survey of Music Business</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 2386 Internship - Audio Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 1323 Audio Electronics Troubleshooting</td>
<td>3</td>
</tr>
<tr>
<td>MUSI 1212 Theory of Music II</td>
<td>2</td>
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<tr>
<td>Applied Music Requirement</td>
<td>3</td>
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<tr>
<td>MUSI 1217 Ear Training/Sight Singing II</td>
<td>2</td>
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<tr>
<td>Band, Choir, or Orchestra</td>
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<tr>
<td>Music Appreciation</td>
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</table>

**SUBTOTAL** 22

**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.*

**Courses which satisfy this requirement are listed in the Behavioral and Social Sciences Section of the Transfer Core Curriculum.*

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 Survey of Music Literature.

### Techniques of Audio Engineering (4MUS-AUDI)

#### Certificate of Technology

**Central Campus**

**First Term**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>Applied Music</td>
<td>4</td>
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<tr>
<td>MUSC 1327 Audio Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>MUSI 1181 Class Piano I</td>
<td>1</td>
</tr>
<tr>
<td>MUSB 1305 Survey of Music Business</td>
<td>3</td>
</tr>
<tr>
<td>MUSI 1301 Music Fundamentals</td>
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</table>

**SUBTOTAL** 14

**Second Term**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1323 Audio Electronics Troubleshooting</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 2427 Audio Engineering II</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1331 Musical Instrument Digital Interface</td>
<td>3</td>
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**SUBTOTAL** 10

**Third Term**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 2386 Internship - Audio Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 2355 Musical Instrument Digital Interface II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 2101 Audio Engineering Practices</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 2447 Audio Engineering III</td>
<td>4</td>
</tr>
</tbody>
</table>

**SUBTOTAL** 11

### Broadcast Audio Technology (4MUS-BRCST)

#### Certificate of Technology

**Central Campus**

In a unique cooperative effort, San Jacinto Community College District (SJC) and Alvin Community College (ACC) are offering a joint Certificate of Technology in Broadcast Audio Technology.

**First Term**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 1327 Audio Engineering I</td>
<td>3</td>
</tr>
<tr>
<td>RTVB 1380</td>
<td>3</td>
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<tr>
<td>MUSC 1331 Musical Instrument Digital Interface</td>
<td>3</td>
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<tr>
<td>RTVB 1355</td>
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</table>

**SUBTOTAL** 12

**Second Term**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 2427 Techniques of Audio Engineering II</td>
<td>4</td>
</tr>
<tr>
<td>MUSC 1323 Audio Electronics Troubleshooting</td>
<td>3</td>
</tr>
<tr>
<td>RTVB 1317</td>
<td>4</td>
</tr>
<tr>
<td>RTVB 2380</td>
<td>3</td>
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<tr>
<td>MUSC 2101 Audio Engineering Practices</td>
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**SUBTOTAL** 15

**Third Term**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
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<tbody>
<tr>
<td>MUSC 2447 Audio Engineering III</td>
<td>4</td>
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<tr>
<td>RTVB 1409</td>
<td>3</td>
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<td>RTVB 1391</td>
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<tr>
<td>MUSC 2386 Internship - Recording Arts Technology/Technician</td>
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</table>

**SUBTOTAL** 13

**Certificate of Technology Total** 40

*Capstone Experience: MUSC 2386, RTVB 1391*

Note: The RTVB rubric applies for the Alvin Community College courses.

### Sound Recording (6MUS-SOUND)

#### Occupational Certificate

**Central Campus**

**First Term**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSB 1305 Survey of Music Business</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 1331 Musical Instrument Digital Interface II</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 2101 Audio Engineering Practices</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 2447 Audio Engineering III</td>
<td>4</td>
</tr>
</tbody>
</table>

**SUBTOTAL** 9
Second Term | Credit
---|---
MUSC 2101 Audio Engineering Practices | 1
MUSC 1323 Audio Electronics Troubleshooting | 3
MUSC 2427 *Audio Engineering II | 4
**SUBTOTAL** | **8**
Occupational Certificate Total | 17
Capstone Experience: MUSC 2101
* *Audio Engineering I and II may not be taken concurrently.*

Non-Destructive Testing Technology

See Welding Technology for related courses

Non-Destructive Testing Technology (3WLD-NDT)

Associate of Applied Science Degree

Central Campus

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 1405 Introduction to Ultrasonics: Level 1 & 2 | 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
**SUBTOTAL** | **16**

Second Term | Credit
---|---
QCTC 2331 Standards | 3
NDTE 1454 Intermediate Ultrasonics: Flaw Detection & Sizing | 4
NDTE 1410 Liquid Penetrant/Magnetic Particle Testing Level 1 & 2 | 4
Math 1333 Contemporary Mathematics for Technical Program or
MATH 1314 College Algebra | 3
ENGL 1301 Composition I | 3
**SUBTOTAL** | **17**

Third Term | Credit
---|---
WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW) or Approved Elective | 3
NDTE 2401 Advanced Ultrasonics: Phased Array & A.U.T | 4
ENGL 2311 Technical Report Writing | 3
Behavioral or Social Sciences | 3
METL 2435 Welding Metallurgy II | 4
**SUBTOTAL** | **17**

Fourth Term

Non-Destructive Testing Technology (4WLD-NDT)

Certificate of Technology

Central Campus

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, SNT-TC-1A. Training in these areas prepares students for entry-level work in conventional non-destructive testing careers and provides additional knowledge for current inspectors or fabricators.

First Term | Credit
---|---
NDTE 1405 Introduction to Ultrasonics: Level 1 & 2 | 4
QCTC 1446 Introduction to Testing and Inspection Systems | 4
METL 1405 Welding Metallurgy I | 4
**SUBTOTAL** | **12**
Technical Programs

Second Term                   Credit
BCIS 1305 Business Computer Applications or
   ITSC 1309 Integrated Software Applications I ............. 3
NDTE 1410 Liquid Penetrant/Magnetic Particle
   Testing; Level 1 & 2 ............................................. 4
QCTC 2331 Standards ..................... 3
Approved Elective .................... 3

SUBTOTAL: 13
Certificate of Technology Total: 25
Capstone Experience: METL 1405
Approved Electives
DFTG 1405    METL 1313    METL 2435    NDTE 1301

Quality Assurance Technology
(6WLD-QAT)

Occupational Certificate

Central Campus

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 can then use these concepts and methods in industries utilizing auditing practices, quality controls, and inspection techniques.

First Term                   Credit
QCTC 1343 Quality Assurance ........................................... 3
PTAC 2314 Principles of Quality or
   QCTC 1448 Metrology ............................................ 3
QCTC 1446 Testing and Inspection Systems ....................... 4

SUBTOTAL: 10

Second Term                   Credit
QCTC 2331 Standards ..................... 3
QCTC 1341 Statistical Process Control ......................... 3
ITSC 1309 Integrated Software Apps ......................... 3

SUBTOTAL: 9
Occupational Certificate Total: 19
Capstone Experience: QCTC 1341

Nursing

San Jacinto College offers three associate of applied science degree programs in nursing that qualifies the graduate to make application to the National Council Licensure Examination for Registered Nurse (NCLEX-RN). The Central Campus ADN programs (Transition and generic) are:

Approved by:

The Texas Board of Nursing (BON) - The contact information is: Texas Board of Nursing 333 Guadalupe #3-460, Austin, Texas 78701. Office: (512) 305-7400. Fax: (512) 305-7401

And accredited by:

The National League for Nursing Accrediting Commission - the contact information is: National League for Nursing Accrediting Commission 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326. Office: 404.975.5000.

These programs are:

- The Generic (basic) RN program, offered on the Central Campus, a five semesters program designed for the novice in health care aspiring to become a registered nurse.
- The Transition to RN program, also offered on the Central Campus, designed for LVNs and Paramedics who aspire to become a registered nurse. The program is four semesters.
- The LVN/Paramedic Mobility program, offered on the South Campus, designed for the work-experienced LVN and Paramedic whose goal is to become a registered nurse. The program is three semesters. The applicant must present documentation of three years recent employment in the clinical health care setting with a minimum of 1000 hours within one calendar year.

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 Nursing to take the National Council Licensure Examination for Practical Nurse (NCLEX-PN) to become a Licensed Vocational Nurse (LVN).

Central Campus

Students applying for admission to the Generic Associate Degree Nursing (ADN) program must submit the following items:

(1) Application for Admission to San Jacinto College via our website at www.sanjac.edu (provided online).
(2) Associate Degree Nursing Program Application (provided online) during application periods.
(3) Official transcripts –
   (a) High school graduates and GED completers, never having attended college, must have an official transcript from their high school or GED testing center mailed directly to the Central Campus Office of Enrollment Services. Applicants enrolled in their senior year of high school should contact the Central Campus Office of Enrollment Services regarding transcript requirements.
   (b) College transcripts – Applicants must have official transcripts from all colleges previously attended mailed directly to the Central Campus Office of Enrollment Services. Transcripts should be requested as soon as possible; do not wait until the application period beginning dates of April 1 or September 1 to request transcripts.
All courses completed outside the San Jacinto College District should be evaluated by enrollment services. A transcript Evaluation form can be downloaded from the San Jacinto College website. A minimum cumulative GPA of 2.5 is required for all applicants.

Note: To insure accuracy, identify all names used in attending prior institutions that differ from the name submitted on the ADN Program Request Form.

(4) Completion of the following prerequisite courses:
   ENGL 1301 Composition I
   MATH 1314 College Algebra OR MATH 1333 Contemporary Mathematics for Technical Programs (or higher level MATH course)
   BIOL 2401 Human Anatomy and Physiology I AND BIOL 2402 Human Anatomy and Physiology II, AND BIOL 2420 Microbiology and Pathology (or BIOL 2421 Introductory Microbiology)
   **Biology courses must be taken within the last five years with no grade less than a “C.”

(5) Official test scores – Applicants seeking admission must submit official Nursing Admission Assessment Exam (A2) scores to the Central Campus Office of Enrollment Services. A composite score of 75 percent and a score of 75 percent in EACH section of the English, Math and Science is required. The Learning Styles section is required, but will not be used in determining admissions. Official test scores should be requested as soon as possible. Please contact the testing center for dates available to test on campus.


Selection Criteria
Students who apply for admission to the Associate Degree Nursing program will be selected based on total score on the application rubric. A minimum cumulative GPA of 2.5 is required for all students who have previously attended college. Meeting minimal entry requirements does not guarantee program admission.

Students must apply for admission to the Associate Degree Nursing program by submitting an Associate Degree Nursing Program Application and all required official documents at the same time to the Central Campus Office of Enrollment Services during the application period stated below:

Application Periods
• Fall Term: April 1 - June 1
• Spring Term: September 1 - November 1

Transcripts and Test Scores
Students should request transcripts and test scores be mailed directly to the Central Campus Office of Enrollment Services as soon as possible. Transcripts and test scores may be requested prior to the application period beginning dates. Applicant will need to fill out a Transcript Evaluation Form if transferring any courses. Requesting transcripts and test scores as soon as possible will expedite the processing of applicants’ documents. Do not send documents to the North Campus or the South Campus. It is imperative the Central Campus Office of Enrollment Services be made aware of all names utilized on prior documents if names differ from the name submitted on the Associate Degree Nursing Program Request Form.

Criminal Background and Drug Screening
A clear Criminal Background Check and negative Drug Screening is now required prior to enrolling in the Nursing program and as part of the application process. A valid receipt from PreCheck, Inc. and Deer Park Family Clinic must be submitted with your application to Enrollment Services. Please note that the criminal background check and drug screening should be completed and submitted with the application during the application period ONLY. Any criminal background check or drug screening done outside the application period will NOT be considered. Applicants to the Associate Degree Nursing program will be notified by email regarding their program admission status. Applicants who are not selected for admission to the Associate Degree Nursing program must re-apply. Applicants who are accepted for admission to the Associate Degree Nursing program, but who do not enroll, must also re-apply.

Associate Degree Nursing (RN) (3NURS)

Associate of Applied Science Degree Central Campus

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2401 Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2402 Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2420 Microbiology and Pathology or BIOL 2421 Introductory Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>*MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
<td>3</td>
</tr>
</tbody>
</table>

SUBTOTAL 18
### Technical Programs

#### Credential Exam: NCLEX–RN

- RNSG 1413 Foundations for Nursing Practice ......................... 4
- RNSG 1144 Intermediate Nursing Skills II .............................. 1
- RNSG 1215 Health Assessment ............................................. 2
- RNSG 1160 Clinical Nursing Introduction .............................. 1
- PSYC 2301 General Psychology ........................................... 3

**SUBTOTAL** 11

#### Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>RNSG 1341 Common Concepts Adult Health</td>
<td>3</td>
</tr>
<tr>
<td>RNSG 1261 Clinical Nursing Common Concepts of Adult Health</td>
<td>2</td>
</tr>
<tr>
<td>RNSG 1343 Complex Concepts of Adult Health</td>
<td>3</td>
</tr>
<tr>
<td>RNSG 1262 Clinical Nursing Complex Concepts of Adult Health</td>
<td>2</td>
</tr>
<tr>
<td>RNSG 1301 Pharmacology</td>
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**SUBTOTAL** 17

#### PostY1Summer

- RNSG 2231 Advanced Concepts of Adult Health ........................... 2
- RNSG 2260 Clinical Nursing Advanced Concepts of Adult Health 2

**SUBTOTAL** 4

#### Third Term

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
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<tr>
<td>RNSG 2262 Clinical Nursing Care of Children and Families</td>
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<td>RNSG 1251 Care of Childbearing Families</td>
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**SUBTOTAL** 12

#### Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
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<td>RNSG 2261 Clinical Nursing Mental Health</td>
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<td>RNSG 2263 Clinical Nursing Management of Client Care</td>
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</table>

**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, BIOL 2402, and BIOL 2420 or BIOL 2421, and ENGL 1301, and MATH 1314 or MATH 1333 prior to enrolling in any nursing course. College Preparatory 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

#### Central Campus

The ADN Transition to RN (LVN-RN and Paramedic to RN Specialty) Program is designed for the Licensed Vocational Nurse or Paramedic applicant who desire to continue their education in health care to become professional nurses. The entry criteria to these programs do not require previous or current employment in the field of practical nursing or paramedic. The LVN applicant must have a current license to practice as a vocational nurse in the state of Texas. The Paramedic must be certified to practice as a paramedic in the state of Texas. Successful completion of the Transition program by these students will qualify them to make application for the National Council Licensure Examination-Registered Nurse (NCLEX-RN).

The ADN Transition Programs are approved by the Texas Board of Nursing (BON), 222 Guadalupe, #3-460, Austin, TX, 78701 telephone 512.305.7400 Fax 512.305.7401; and accredited by the National League for Nursing Accrediting Commission (NLNAC), 3343 Peachtree Road, northeast, Suite 500 Atlanta, Georgia, and 30326 telephone 404.975.5000 Fax 404.975.5020.

To be considered for admission into the program students must meet the College’s general admissions requirements as well as the program admissions criteria and must be assessed for college readiness in the areas of reading, mathematics, and writing (see the Texas Success Initiative, page 16 of the San Jacinto Community College District 2012-2013 catalog). All prerequisite courses must be completed prior to applying to the ADN Transition Program. Permission must be obtained from the department chair to enroll in RNSG 1215 Health Assessment and RNSG 1413 Foundation for Nursing Practice -Paramedics only.

Students applying for admission to the ADN Transition Program must submit the following items:

1. Application for Admission to San Jacinto College via our website at [www.sanjac.edu](http://www.sanjac.edu) (provided online).
2. Associate Degree Nursing Program Application (provided online) during the application periods.
3. Official transcripts –
   - (a) College transcripts – Applicants must have official transcripts from all colleges previously attended mailed directly to the Central Campus Office of Enrollment Services. Transcripts should be requested as soon as possible; do not wait until the application period beginning dates of April 1st or September 1st to request transcripts. All courses completed outside the San Jacinto College District should be evaluated...
Students who apply for admission to the Associate Degree Transition Program will be selected based on total score on the application rubric. A minimum cumulative GPA of 2.5 is required for all students who have previously attended college. Meeting minimal entry requirements does not guarantee program admission.

**Selection Criteria**

Students who apply for admission to the Associate Degree Transition Program will be selected based on total score on the application rubric. A minimum cumulative GPA of 2.5 is required for all students who have previously attended college. Meeting minimal entry requirements does not guarantee program admission.

**Application Periods**

The ADN Transition Program accepts applicants twice a year, the Fall and Spring semesters. Applicants must bring their Texas LVN license or Paramedic Certificate, and copies of all transcripts and transcript evaluations to the nursing office. Acceptance is based on GPA, completion of Prerequisite courses according to stated criteria, and Criminal Background and Drug Screening results.

Classes enroll in January and August of each year. The application periods are:

- **Fall:** September 1-November 1
- **Spring:** January 1-August 1

**Transcripts**

Students should request transcripts and test scores be mailed directly to the Central Campus Office of Enrollment Services as soon as possible. Applicants will need to fill out a Transcript Evaluation Form if transferring any courses. Requesting transcripts will expedite the processing of applicants' documents. Do not send documents to the North Campus or the South Campus. It is imperative the Central Campus Office of Enrollment Services be made aware of all names utilized on prior documents if names differ from the name submitted on the Associate Degree Nursing Program Request Form.

**Criminal Background and Drug Screening**

A Criminal Background Check and Drug Screening are required prior to enrolling in the Nursing program and as part of the application process. These must be completed by a designated company and receipts must be submitted with your application to Enrollment Services. Information regarding the designated companies will be provided at the time of specimen collection. These must be completed by a designated company and receipts must be submitted with your application to Enrollment Services. Information regarding the designated companies will be provided at the time of specimen collection. A Criminal Background Check and Drug Screening are required prior to enrolling in the Nursing program and as part of the application process. These must be completed by a designated company and receipts must be submitted with your application to Enrollment Services. Information regarding the designated companies will be provided at the time of specimen collection. A Criminal Background Check and Drug Screening are required prior to enrolling in the Nursing program and as part of the application process. These must be completed by a designated company and receipts must be submitted with your application to Enrollment Services. Information regarding the designated companies will be provided at the time of specimen collection.
The applicant who has been convicted of a felony, implicated in substance abuse, or involved in activities considered inappropriate by the Texas Board of Nursing is not eligible to apply to enter the associate degree program until he/she has received a declaratory order from the Texas Board of Nursing granting permission to write the NCLEX-RN. Such an applicant should contact the executive secretary of the Texas Board of Nursing for guidance in petitioning the board for the decision of eligibility prior to applying for entry into the nursing program. The Board’s statement of eligibility must be submitted to the Associated Degree Nursing Chair.

All results from drug screen/criminal background check must be sent to San Jacinto College – Central, Department Chair, Associate Degree Nursing, 8060 Spencer Hwy., Pasadena, Texas 77505 by the applicable application period.

**Notes:** Please make copies of all documents submitted and they must all be submitted at one time. It is the responsibility of every applicant to monitor the process and determine the Central Campus Office of Enrollment Services has received all documentation. Do not mail a request form for required documentation and assume the documents will arrive by the cut-off date. Each applicant should monitor the status of their documentation until the Central Campus Office of Enrollment Services informs them all required documentation has been received.

**Health**

A physical examination must be passed prior to entry into the ADN Transition Program. This exam must be consistent with the policies of the teaching hospitals or agencies to which nursing students are assigned for clinical experience. Physical exams may be scheduled with a private physician utilizing the forms provided by the School of Nursing after acceptance into the program. The examination must demonstrate that the student is physically fit, free from communicable diseases and immune to Rubella, Measles, Mumps, and Varicella. Completion of the Hepatitis A and B vaccine series is required, along with updated Tetanus, yearly TB screening and flu vaccine during flu season.

All students admitted to a health science program are expected to maintain the highest personal standards of conduct consistent with the professional standards as perceived by the Nursing department faculty and professional personnel in the agencies used as extended campus sites. Any information indicating that such standards are not maintained is subject to review by members of the Nursing department faculty and may result in a recommendation to the College for dismissal from the program.

Evidence of physical and emotional fitness upon admission and throughout the program is expected and is subject to review by the Nursing Department and to medical opinion or policy of hospitals or agencies which are used as extended campus sites for assigned educational experience. Students should refer to the Nursing Student Handbook for details. Current certification through the American Heart Association as a CPR health care provider is an additional requirement.

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**ADN - Transition to RN (LVN to RN)**

**(3NUR-LTRN)**

**Associate of Applied Science Degree**

**Central Campus**

<table>
<thead>
<tr>
<th>Prerequisite</th>
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<td>BIOL 2401 Human Anatomy and Physiology I</td>
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<tr>
<td>BIOL 2402 Human Anatomy and Physiology II</td>
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<tr>
<td>BIOL 2420 Microbiology and Pathology or BIOL 2421 Introductory Microbiology</td>
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<tr>
<td><em>MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra</em></td>
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<tr>
<td>PSYC 2301 General Psychology</td>
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<tr>
<td>PSYC 2314 Lifespan Growth and Development</td>
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<td>ENGL 1301 Composition I</td>
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**SUBTOTAL** 27

**First Term**

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<tr>
<td>RNSG 1161 Clinical Transition Medical Surgical Nursing</td>
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<tr>
<td>RNSG 1343 Concepts of Adult Health</td>
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<tr>
<td>RNSG 1262 Clinical Nursing Complex Concepts of Adult Health</td>
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**SUBTOTAL** 11

**Second Term**

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<td>RNSG 2231 Advanced Concepts of Adult Health</td>
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<td>RNSG 2260 Clinical Nursing Advanced Concepts of Adult Health</td>
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**SUBTOTAL** 11

**PostY1Summer**

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<tr>
<td>RNSG 2201 Care of Children and Families</td>
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**SUBTOTAL** 4
### Technical Programs

#### Paramedic to RN Specialty (3NUR-PTRN)

**Associate of Applied Science Degree**

**Central Campus**

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<th>Course</th>
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<td><strong>MATH 1333 Contemporary Mathematics or</strong></td>
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<td>PSYC 2301 General Psychology</td>
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<td>ENGL 1301 <em>Composition I</em></td>
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<td>RNSG 1215 <strong>Health Assessment</strong></td>
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<td>BIOL 2420 Microbiology and Pathology</td>
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**SUBTOTAL** 31

**First Term**

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<th>Course</th>
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<td>RNSG 1161 Clinical Transition Medical Surgical Nursing</td>
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<td>RNSG 1343 Complex Concepts of Adult Health</td>
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**SUBTOTAL** 11

**Second Term**

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<th>Course</th>
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<td>RNSG 1251 Care of Childbearing Families</td>
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<td>RNSG 1263 Clinical Nursing Care Childbearing Families</td>
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<td>RNSG 2231 Advanced Concepts of Adult Health</td>
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<td>ENGL 2311 Technical Report Writing</td>
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**SUBTOTAL** 11

**PostY1Summer**

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**SUBTOTAL** 4

**Third Term**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>RNSG 2213 Mental Health Nursing</td>
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<td>RNSG 2121 Management of Client Care</td>
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<td><strong>MATH 1333 Contemporary Mathematics or</strong></td>
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<td>MATH 1314 College Algebra</td>
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<td>RNSG 1215 <strong>Health Assessment</strong></td>
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<tr>
<td>BIOL 2420 Microbiology and Pathology</td>
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**SUBTOTAL** 11

**Verification of Workforce Competencies**

**Capstone Experience: RNSG 2121, RNSG 2263, Comprehensive Exit Exam**

**Credit Exam: NCLEX–RN**

* Students must satisfactorily complete BIOL 2401, BIOL 2402, and BIOL 2420 or BIOL 2421, and ENGL 1301, and MATH 1314 or MATH 1333 prior to enrolling in any nursing course. College Preparatory 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.

* Students must satisfactorily complete BIOL 2401, BIOL 2402, and 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 LVN applicant to the Transition to RN Program must have a current Texas License for Practice as a Vocational Nurse.

### Associate Degree Nursing, Mobility

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 a 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, 3343 Peachtree Road NE, Atlanta, Georgia 30326, 404.975.5000.)

[www.sanjac.edu](http://www.sanjac.edu)
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. 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 Sept. 1–Oct. 15 for Spring admission and April 15 – June 1 for Fall admission.

Attendance at the Information Sessions is a requirement of all prospective students, in order to make application to the nursing program.

The following documentation must be submitted to the South Campus nursing program director:

- Current Texas license to practice–Licensed Vocational Nurses must have a current Texas license. Paramedics must be Texas certified.
- 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.
- All official transcripts (sealed) from previous colleges must have been submitted and evaluated by Enrollment Services prior to time of application. Applicant must have a minimum of a 2.5 GPA in all required prerequisite courses to be considered for admission.
- 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 have been convicted of a felony that relates to the duties and responsibilities of a licensed registered nurse may be disqualified from obtaining licensure as a licensed registered nurse. (213.28 Board of Nurse Examiners for the State of Texas; Rules and Regulations, Sept. 2004.) For further inquiry, the applicant addresses these issues directly to the Texas Board of Nursing.

Reasons for automatic denial for admissions:

a. Any two grades of a “D” or below in RNSG courses within the past two (2) years.

b. Any two grades of a “D” or below in Biology courses within the past five (5) years.

***Grades of “IP”, “NG”, “FX”, etc. will be considered as failures.

***Grades of a “W” will not count as a failure; however for every two (2) grades of “W” one point will be deducted from your admission consideration.

LVN/Paramedic to ADN Mobility (3NUR-LMOB) (3NUR-PMOB)

Associate of Applied Science Degree

South Campus

Prerequisite Credit
PSYC 2301 General Psychology ................................................. 3
ENGL 1301 Composition I ......................................................... 3
MATH 1314 College Algebra or
MATH 1333 Contemporary Mathematics ............................... 3
BIOL 2401 Human Anatomy and Physiology I ...................... 4
BIOL 2420 Microbiology and Pathology ................................. 4
BIOL 2402 Human Anatomy and Physiology II .................... 4
RNSG 1301 Pharmacology ....................................................... 3
ENGL 1302 Composition II or
ENGL 2311 Technical Report Writing ................................. 3
RNSG 1108 Dosage Calculations for Nursing ......................... 1
RNSG 1215 Health Assessment ................................................. 2

Subtotal 30
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 Texas Board of Nursing. 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 Texas Board of Nursing to practice as a licensed vocational nurse. The prerequisite for enrolling in the first term is acceptance into the program.

Applicants for the program must meet the requirements for general admission to the College and must also meet the following specific requirements:

- Be a high school graduate or pass the GED test.
- Pass the placement test with acceptable scores, and if required, complete needed College Preparatory courses.
- Have a GPA minimum of 2.25 on college-level coursework.
- Pass a physical examination.

Effective Jan. 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 Texas Board of Nursing 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, entrance exams, 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 email. Applicants who are not selected for admission to the vocational nursing program for a given term must re-apply 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 re-apply.

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.

### Vocational Nursing (4NUR-LVN)

#### Certificate of Technology

**North and South Campuses**

The prerequisite for enrolling in the first term is acceptance into the program.

<table>
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<th>First Term</th>
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<tr>
<td>VNSG 1116 Nutrition or HECO 1322 Principles of Nutrition</td>
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<tr>
<td>VNSG 1227 Essentials of Medication Administration</td>
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<tr>
<td>VNSG 1320 Anatomy and Physiology for Allied Health, or BIOL 2401 Human Anatomy and Physiology I and BIOL 2402 Human Anatomy and Physiology II</td>
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<tr>
<td>VNSG 1323 Basic Nursing Skills</td>
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<tr>
<td>VNSG 1170 Clinical Prep</td>
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**Subtotal** 17
### Technical Programs

#### Second Term

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<td>VNSG 2261 Clinical V</td>
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**Subtotal** 12

**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 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 dealt 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:

- Identify and analyze accident- and loss-producing conditions.
- Develop accident prevention and loss control methods, procedures, and programs.
- Communicate accidents- and loss-control data to individuals on a need-to-know basis.
- 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 CCHEST 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.

### Occupational Health and Safety Technology (30CC-HLTH)

#### Associate of Applied Science Degree

#### Central Campus

<table>
<thead>
<tr>
<th>Term</th>
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<th>Courses</th>
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<tbody>
<tr>
<td><strong>First Term</strong></td>
<td></td>
<td><strong>ENGL 1301 Composition I</strong> ................. 3</td>
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<td><strong>CHEM 1411 General Chemistry I</strong> ............. 4</td>
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<td><strong>MATH 1333 Contemporary Mathematics or</strong> MATH 1314 College Algebra 3</td>
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<td><strong>EPCT 1307 Introduction to Environmental, Safety and Health Technology</strong> 3</td>
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<td><strong>OSHT 1309 Physical Hazards Control</strong> ............. 3</td>
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<td><strong>OSHT 1307 Construction Site Safety and Health</strong> ............. 3</td>
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<td><strong>EPCT 1341 Principles Industrial Hygiene</strong> .......... 3</td>
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<td><strong>OSHT 2305 Ergonomics and Human Factors</strong> .......... 3</td>
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**Humanities or Fine Arts** .......... 3
Fourth Term

***Behavioral or Social Sciences ................................................... 3
OSHT 2309 Safety Program Management .................................. 3
OSHT 2401 OSHA Regulations - General Industry ...................... 4
EPCT 2333 Environmental Toxicology ........................................ 3
Approved Elective .................................................................. 3

SUBTOTAL 16

Associate of Applied Science Degree Total 65
Capstone Experience: OSHT 2309

External Learning Experience: OSHT 2380
*Students desiring to obtain a baccalaureate degree should take MATH 1314–Col-
lege 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 1160* EMSP 1501* EPCT 1301 EPCT 1305
EPCT 1313 OSHT 1321 OSHT 2380
*EMSP 1501 and EMSP 1160 are both required if used to satisfy the
elective requirement for Occupational Health and Safety Technology
and must be taken concurrently.

Occupational Health and Safety Technology (4OCC-HLTH)

Certificate of Technology

Central Campus

First Term

EPCT 1301 Hazardous Waste Operations and Emergency
Response (HAZWOPER) Training and Related Topics .......... 3
EPCT 1307 Introduction to Environmental, Safety and
Health Technology ............................................................. 3
OSHT 1307 Construction Site Safety and Health ....................... 3
OSHT 1309 Physical Hazards Control ....................................... 3
OSHT 1320 Energy Industrial Safety ........................................ 3

SUBTOTAL 15

Second Term

OSHT 1313 Accident Prevention, Inspection and Investigation .... 3
OSHT 2309 Safety Program Management .......................... 3
OSHT 2320 Safety Training Presentation Techniques .............. 3
OSHT 2401 OSHA Regulations - General Industry .................. 4
EPCT 1305 Environmental Regulations Overview .................. 3
EPCT 1311 Introduction to Environmental Science or
EPCT 1313 Contingency Planning or
OSHT 2380 Cooperative Education - Occupational Safety and
Health Technology/Technician or
EMSP 1501 Emergency Medical Technician Basic or
EMSP 1160 Clinical - Emergency Medical
Technology/Technician ....................................................... 3

SUBTOTAL 19

Certificate of Technology Total 34
Capstone Experience: OSHT 2309

External Learning Experience: OSHT 2380
Approved Electives
EMSP 1160* EMSP 1501* EPCT 1311 EPCT 1313
OSHT 1321 OSHT 2380
*EMSP 1501 and EMSP 1160 are both required if used to satisfy the
elective requirement for Occupational Health and Safety Technology
and must be taken concurrently.

Paralegal

Paralegal (3PARA-LGL)

Asssociate of Applied Science Degree

North Campus

The paralegal curriculum at San Jacinto Community College District is designed to provide students with the knowl-
edge and skills required to work under the general direction of attorneys to assist them in the completion of legal tasks. The ABA approved 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

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

SUBTOTAL 15
Technical Programs

Second Term  
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 Math for Technical Programs or  
**Natural Science ................................................................. 3
PHED Activity ................................................................. 1
**Students must be TSI complete in order to graduate: Math level 7.
SUBTOTAL  16

PostY1Summer  
SPCH 1315 Public Speaking or  
SPCH 1318 Interpersonal Communication or  
SPCH 1321 Business and Professional Speech .................................. 3
***Courses which satisfy this requirement are listed in the Humanities and Visual/Performing Arts section of the Transfer Core Curriculum.
SUBTOTAL  3

Third Term  
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
SUBTOTAL  16

Fourth Term  
LGLA 2311 Business Organizations ............................................. 3
LGLA 2309 Real Property .......................................................... 3
LGLA 2313 Criminal Law and Procedure ........................................ 3
LGLA 1343 Bankruptcy or  
LGLA 1359 Immigration Law or  
LGLA 2323 Intellectual Property or  
LGLA 1391 Special Topics in Legal Assistant/Paralegal ..................... 3
LGLA 2388 Internship - Paralegal/Legal Assistant .............................. 3
SUBTOTAL  15

Associate of Applied Science Degree Total  65

External Learning Experience: LGLA 2388

Pharmacy Technician

Pharmacy technicians are a vital member of the health care team. Working under the supervision of the pharmacist, the pharmacy technician performs those tasks associated with the preparation and distribution of medication. Exciting career opportunities include, but are not limited to, positions in hospitals, retail pharmacies, nursing homes, compounding pharmacies, home health care, nuclear pharmacies, insurance companies, and public and government health agencies. The San Jacinto College’s pharmacy technician program is a 12-month certificate program designed to provide applicants with the skills and knowledge to pass the Pharmacy Technician Certification Examination (PTCE) as well as qualify for entry-level positions in a variety of pharmacy settings.

Program Overview

The pharmacy technician program at San Jacinto College is a nationally-accredited program under the guidelines of the American Society of Health-System Pharmacists (ASHP). The program curriculum requires students to complete 32 credit hours that total 832 contact hours which consists of a combination of lecture, on-campus laboratory and clinical training. The emphasis of the program is on training students to work in retail and hospital pharmacies. Upon completion of the program, students are awarded a certificate of technology. After graduation, students apply to take the Pharmacy Technician Certification Examination (PTCE). A pharmacy technician must pass the certification examination and register with the Texas State Board of Pharmacy (TSBP) to practice as a certified pharmacy technician (CPhT) in the state of Texas. The program includes two clinical courses. Clinicals are unpaid positions in which students are supervised by the employees at the clinical site. The first clinical is a 160-contact hour, three-credit hour, external learning experience course that takes place in a retail pharmacy. The second clinical is a 160-contact hour, three-credit hour external learning experience course that takes place in a hospital pharmacy. Clinicals are scheduled according to the hours of the site and may vary among day, evening and night shifts. We cannot guarantee any specific site, but every effort will be made to accommodate the student. Students are responsible for their own transportation to and from clinical sites.

Program Admission Procedures

The purpose of this admissions process is to provide information and access to the resources that will lead to student success in the program.

Depending upon the campus, the pharmacy technician program accepts students twice a year; the Fall semester for day students and high school dual credit students (Dual Credit program at North Campus only) and the Spring semester for evening students (Evening Program at South Campus only). Application periods are May 1 to July 31 for the Fall semester, and Nov. 1 to Jan. 15 for the Spring semester.

Once the deadline for applications has passed, all completed files will be reviewed and processed.

Students on Academic Probation or Suspension do not qualify for admission.

• Computer proficiency is recommended for the certificate program. Students who do not have computer proficiency are encouraged to take BCIS 1305 or ITSC 1309.

Associate of Applied Science Degree Total  65

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

** Students must be TSI complete in order to graduate: Math level 7.
The orientation provides an opportunity to:
• Review applicant assessment *
• Discuss the program and career opportunities
• Determine educational plan
• Receive instructions for registration
• *Applicants demonstrating a need for additional coursework to equip them for success in the Pharmacy Technician program must successfully complete suggested course(s) prior to admission to the program.
• *Academic background will be reviewed.

Selection Criteria
Acceptance to the pharmacy technician program is based on open enrollment, first-come, first-serve basis. Applicants desiring admission must meet with the program director for program advisement and review of admission requirements. If the applicant meets all basic requirements, the applicant is accepted for admission. When the program capacity is reached, qualified applicants are placed on a waiting list in the order their application was received, and they are offered admission during the next admission cycle.

Program Admission Requirements
• Applicants for the program must meet the College's general admission requirements, as well as the program admission criteria.
• SAN JACINTO COLLEGE GENERAL ADMISSION REQUIREMENTS – the following must be completed and submitted to the Office of Enrollment Services prior to applying to the program.
• Complete the application for admission to San Jacinto College through Enrollment Services.
• Submit official transcripts high school (diploma, GED or equivalent) and all previous college transcripts from accredited colleges/universities.
• Complete Placement Test with a skill level of 6 or better on Math, Reading, and Writing.

PHARMACY TECHNICIAN PROGRAM ADMISSION REQUIREMENTS – the following must be completed and submitted to the office of the pharmacy technician program by the application deadline.

Program Application
• Criminal Background Check individuals with a history of misdemeanors and felony convictions do not qualify for admission into the program.
• Urine drug screen
• Must be negative in order to qualify for admission into the program.
• Obtain Pharmacy Technician Trainee License by registering as a Pharmacy Technician Trainee with the Texas State Board of Pharmacy. This process requires fingerprinting.

Copy of Immunization Records to include:
• Tetanus-diphtheria (Td): proof or one dose less than 10 years old.
• TB Skin Test (TB): If you have had a previous positive TB skin test or the BCG (TB) vaccination then you must have a Chest X-Ray performed. TB Skin Tests & Chest X-Ray are good for one year.
• Measles, Mumps, and Rubella (MMR): proof of two doses. If previously vaccinated and shot records are lost or unavailable, immunity can be validated with a titer level (blood) confirmation.
• Varicella (chickenpox): proof of two doses or written validated disease history by parent or physician. If previously vaccinated and shot records are lost or unavailable, immunity can be validated with a titer level (blood) confirmation.
• Hepatitis B: proof of three doses. If previously vaccinated and shot records lost or unavailable, immunity can be validated with a titer level (blood) confirmation.
• *Please note that the series takes four to six months to complete.
• Influenza (Flu) Vaccine: flu vaccines are good for one year.

Pharmacy Technician (4PHAR)
Certificate of Technology
North and South Campuses

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<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>HPRS 1106 Essentials of Medical Terminology</td>
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<tr>
<td>PHRA 1301 Introduction to Pharmacy</td>
<td>3</td>
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<tr>
<td>PHRA 1305 Drug Classification</td>
<td>3</td>
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<tr>
<td>PHRA 1309 Pharmaceutical Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1313 Community Pharmacy Practice I</td>
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<table>
<thead>
<tr>
<th>Second Term</th>
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<tbody>
<tr>
<td>PHRA 1441 Pharmacy Drug Therapy and Treatment</td>
<td>4</td>
</tr>
<tr>
<td>PHRA 1347 Pharmaceutical Mathematics II</td>
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</tr>
<tr>
<td>PHRA 1345 Intravenous Admixture and Sterile Compounding</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1349 Institutional Pharmacy Practice</td>
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</tr>
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<td><strong>SUBTOTAL</strong></td>
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<table>
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<th>Third Term</th>
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<tbody>
<tr>
<td>PHRA 2360 Clinical - Institutional Pharmacy</td>
<td>3</td>
</tr>
<tr>
<td>PHRA 1360 Clinical - Community Pharmacy</td>
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</table>

Certificate of Technology Total: **32**
Capstone Experience: PHRA 2360
Physical Therapist Assistant

Physical therapist assistants (PTAs) work under the direction and 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. PTAs provide services for patients which help decrease pain, improve mobility, restore function and minimize disabilities.

The PTA program at San Jacinto College South is a nationally-accredited program under the guidelines of The Commission on Accreditation in Physical Therapy Education (111 North Fairfax St., Alexandria, VA 22314-1488; 703.706.3245). 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 applies to take The National Physical Therapist Assistant Examination. Individuals must pass the licensure exam to practice as a PTA in most states including Texas.

PTA students must earn an average of 75 or above in the PTHA classes and a “C” or better in all courses in the PTA curriculum. Additionally, the student must maintain an overall grade point average of at least 2.0 in order to graduate from the PTA program.

Information sessions will be held on a monthly basis at San Jacinto College South (13735 Beamer Road, Houston, TX 77089 in the S.R. (Buddy) Jones, Jr. Vocational/Technical Building. Please see our website to confirm times, dates and location.

ADMISSION CRITERIA

• All application forms and further details are available on-line at www.sanjac.edu/physical-therapy.

• Acceptance into the PTA program is competitive with enrollment limited to 24 students. Applicants must meet the College's general admission requirements. Complete applications must be submitted by the first Friday in March for enrollment in the following Fall semester. Admission to the program is based on a points system. A breakdown of the point system can be found on the website. The top 50 or so students will be eligible for an interview and students with the greatest number of points will be offered acceptance.

• Applicants must complete a total of at least 40 hours of observation in physical therapy from at least two settings and have three letters of recommendation.

• Applicants are not required to complete prerequisite courses in order to apply to the program; however, they are encouraged to take the courses identified with (*) prior to entering the PTA program.

• Meeting the criteria does not guarantee admission to the PTA program. Applications for students not accepted into the program will be held as in-active for two 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 re-activated.

• Accepted students are required to have a criminal background and urine drug screen prior to admission into the program. Any student who has been convicted of misdemeanors (other than minor traffic violations), felonies, or has a positive drug screen will be contacted immediately for further instructions.

Steps to complete admission:

1. Apply for admission into San Jacinto College. Send official transcripts from colleges/universities other than San Jacinto to the registrar’s office at San Jacinto South. Ask for a transcript evaluation. Send all non-official transcripts to the PTA department.

2. Obtain necessary application forms on-line at www.sanjac.edu/physical-therapy.

3. Complete PTA Program application form and submit any time after Jan. 15. A file for the applicant will then be initiated. Documents associated with steps 4 & 5 may then be submitted. All documents must be submitted by March 10.

4. Submit documentation of observation hours. A total of 40 hours is required from at least two of the following settings: out-patient, in-patient rehabilitation, acute care hospital, pediatrics or home health. An in-patient or acute hospital setting is strongly recommended as one of the options.

5. Submit three forms of recommendation. It is strongly suggested that one of the letters be from a PT or PTA.

6. If eligible, complete interview.

7. If accepted, complete criminal background and drug screen.

COST

The cost of the PTA program is the same for any student at San Jacinto College with additional fees for labs, insurance, background check, drug screen, immunizations, CPR certification, and additional travel expenses for clinical rotations. Uniforms may need to be purchased for some clinical rotations.
Physical Therapist Assistant (3PH-THRPY)

# Technical Programs

## Physical Therapist Assistant

### Associate of Applied Science Degree

**South Campus**

<table>
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<tr>
<th>First Term</th>
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<td>PTHA 1405 Basic Patient Care Skills</td>
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<td>PTHA 1413 Functional Anatomy</td>
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<td>ENGL 1301 <strong>Composition I</strong></td>
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<tr>
<td>PTHA 1201 Profession of Physical Therapy</td>
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<td>BIOL 2401 <strong>Human Anatomy and Physiology I</strong></td>
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<td>PTHA 2301 Data Collection</td>
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<td>PTHA 1431 Physical Agents</td>
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<td>PTHA 2409 Therapeutic Exercise</td>
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<td>BIOL 2402 <strong>Human Anatomy and Physiology II</strong></td>
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<td>PTHA 1191 Special Topics in PTA</td>
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<td>PTHA 1360 Clinical I - PTA</td>
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<td>PTHA 1321 Clinical Pathophysiology</td>
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<td><strong>MATH 1314 College Algebra or MATH 1333 Contemporary</strong></td>
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<tr>
<td>PTHA 2531 Neurological Disorders</td>
<td>5</td>
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<tr>
<td>PTHA 2435 Rehabilitation Techniques</td>
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<tr>
<td>PTHA 2239 Professional Issues</td>
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<tr>
<td><strong>ENGL 1302 Composition II or ENGL 2311 Technical Report Writing</strong></td>
<td>3</td>
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<td>PHED 1123 <strong>Weight Training</strong></td>
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<td>PTHA 2460 Clinical II - PTA</td>
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<td>PTHA 2461 Clinical III - PTA</td>
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<td>PSYC 2301 <strong>General Psychology</strong></td>
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| Associate of Applied Science Degree Total | **72** |

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

**Applicants are encouraged to take the required courses identified with (*, **) prior to entering the PTA program.**

## Pipefitting Technology

### Pipefitting Technology (CE-PIPEFT)

### Continuing Education Certificate

**Central and North Campuses**

<table>
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<th>Contact Hours</th>
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**Capstone Experience: PFPB 2033**

### Plumbing and Pipefitting

#### Plumbing and Pipefitting Technology

### Continuing Education Certificate

**North Campus**

<table>
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<th>Contact Hours</th>
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**Capstone Experience: PFPB 2031**

## Process Technology

### Process Technology (3PROT)

### Associate of Applied Science Degree

**Central Campus**

The 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.
Technical Programs

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.

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### First Term

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PTAC 1302 Introduction to Process Technology</td>
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<tr>
<td>PTAC 1308 Safety, Health, and Environment I</td>
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<tr>
<td>BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I</td>
<td>3</td>
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<tr>
<td>MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra</td>
<td>3</td>
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<tr>
<td>SPCH 1318 Interpersonal Communications or SPCH 1321 Business and Professional Speech</td>
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### Second Term

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<thead>
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<tbody>
<tr>
<td>PTAC 1410 Process Technology I - Equipment</td>
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<td>PTAC 1332 Process Instrumentation I</td>
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<tr>
<td>SCIT 1414 Applied General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 1311 Basic Electrical Theory</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
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</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td>18</td>
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</table>

### Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTAC 2420 Process Technology II - Systems</td>
<td>4</td>
</tr>
<tr>
<td>PTAC 2314 Principles of Quality</td>
<td>3</td>
</tr>
<tr>
<td>PTAC 2336 Process Instrumentation II</td>
<td>3</td>
</tr>
<tr>
<td>CTEC 1401 Applied Petrochemical Technology</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1302 Composition I or ENGL 2311 Technical Report Writing</td>
<td>3</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
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### Fourth Term

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>PTAC 2438 Process Technology III - Operations</td>
<td>4</td>
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<tr>
<td>PTAC 2446 Process Troubleshooting</td>
<td>4</td>
</tr>
<tr>
<td>CTEC 2386 Internship Chemical Technology/Technician or INTC 1355 Unit Operations or QCTC 1341 Statistical Process Control or HRPO 1311 Human Relations or PTRT 1301 Introduction to Petroleum Industry or EPCT 1341 Principles of Industrial Hygiene</td>
<td>3</td>
</tr>
<tr>
<td>*Humanities or Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>*Behavioral or Social Sciences</td>
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---

Associate of Applied Science Degree Total 68
Verification of workplace competencies.
Capstone Experience: PTAC 2438

---

### Certificate of Technology

#### Central Campus

### First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>PTAC 1302 Introduction to Process Technology</td>
<td>3</td>
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<tr>
<td>PTAC 1308 Safety, Health, and Environment I</td>
<td>3</td>
</tr>
<tr>
<td>PTAC 1410 Process Technology I - Equipment</td>
<td>4</td>
</tr>
<tr>
<td>SCIT 1414 Applied General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ELPT 1311 Basic Electrical Theory</td>
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### Second Term

<table>
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<tr>
<td>CTEC 1401 Applied Petrochemical Technology</td>
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<td>PTAC 1332 Process Instrumentation I</td>
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<tr>
<td>PTAC 2420 Process Technology II - Systems</td>
<td>4</td>
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<tr>
<td>PTAC 2438 Process Technology III - Operations</td>
<td>4</td>
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<tr>
<td>PTAC 2446 Process Troubleshooting</td>
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Certificate of Technology Total 36
Verification of workplace competencies.
Capstone Experience: PTAC 2438

---

### Process Technology (4PROT)
## Chemical Lab Technician Specialty

### Technical Programs

### Associate of Applied Science Degree

#### Central Campus

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>PTAC 1302 Introduction to Process Technology</td>
<td>3</td>
</tr>
<tr>
<td>PTAC 1308 Safety, Health, and Environment I</td>
<td>3</td>
</tr>
<tr>
<td>PTAC 2446 Process Troubleshooting</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
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**SUBTOTAL** 13

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>CHEM 1411 General Inorganic Chemistry I</td>
<td>4</td>
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<tr>
<td>CHEM 1412 General Inorganic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>PTAC 1410 Process Technology I - Equipment</td>
<td>4</td>
</tr>
<tr>
<td>BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I</td>
<td>3</td>
</tr>
<tr>
<td>Humanities or Fine Arts</td>
<td>3</td>
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<tr>
<td>PTAC 1332 Process Instrumentation I</td>
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<td>PHED Activity</td>
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**SUBTOTAL** 22

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<tbody>
<tr>
<td>PTAC 2420 Process Technology II - Systems</td>
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<tr>
<td>CHEM 2423 Organic Chemistry I</td>
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<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>PTAC 2314 Principles of Quality</td>
<td>3</td>
</tr>
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<td>Behavioral or Social Science</td>
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</tr>
<tr>
<td>PHED Activity</td>
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**SUBTOTAL** 18

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<thead>
<tr>
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<tbody>
<tr>
<td>CTEC 2386 Internship Chemical Technology/Technician or HRPO 1311 Human Relations or PTRT 1301 Introduction to Petroleum Industry or BMGT 1301 Supervision</td>
<td>3</td>
</tr>
<tr>
<td>PTAC 2438 Process Technology III - Operations</td>
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<tr>
<td>CHEM 2425 Organic Chemistry II</td>
<td>4</td>
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<tr>
<td>ENGL 1302 Composition II or ENGL 2311 Technical Report Writing</td>
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</tr>
<tr>
<td>Speech 1318 Interpersonal Communications or SPCH 1321 Business and Professional Speech</td>
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**SUBTOTAL** 17

**Associate of Applied Science Degree Total** 70

**Verification of workplace competencies.**

**Capstone Experience: PTAC 2438
Approved Electives**

* 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

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 department chair prior to registration.

First Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>RELE 1201 Principles of Real Estate I</td>
<td>2</td>
</tr>
<tr>
<td>RELE 1211 Law of Contracts</td>
<td>2</td>
</tr>
<tr>
<td>RELE 1238 Principles of Real Estate II</td>
<td>2</td>
</tr>
<tr>
<td>RELE 1300 Contract Forms and Addenda</td>
<td>3</td>
</tr>
<tr>
<td>RELE 1319 Real Estate Finance</td>
<td>3</td>
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<tr>
<td>RELE 2301 Law of Agency</td>
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<tr>
<td><strong>SUBTOTAL</strong></td>
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Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I</td>
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<tr>
<td>RELE 1321 Real Estate Marketing OR MRKG 2333 Principles of Selling</td>
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<tr>
<td>RELE 1325 Real Estate Mathematics</td>
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</tr>
<tr>
<td>Behavioral or Social Science</td>
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</tr>
<tr>
<td>RELE 2366 Practicum (or Field Experience) - Real Estate</td>
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<td><strong>SUBTOTAL</strong></td>
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</table>

Real Estate (4REAL)

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>RELE 1201 Principles of Real Estate I</td>
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</tr>
<tr>
<td>RELE 1211 Law of Contracts</td>
<td>2</td>
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<tr>
<td>RELE 1238 Principles of Real Estate II</td>
<td>2</td>
</tr>
<tr>
<td>RELE 1300 Contract Forms and Addenda</td>
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<tr>
<td>RELE 1319 Real Estate Finance</td>
<td>3</td>
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<tr>
<td>RELE 2301 Law of Agency</td>
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Second Term

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tr>
<td>BCIS 1305</td>
<td>Business Computer Applications</td>
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<tr>
<td>ITSC 1309</td>
<td>Integrated Software Applications</td>
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<tr>
<td>RELE 1321</td>
<td>Real Estate Marketing</td>
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<tr>
<td>MRKG 2333</td>
<td>Principles of Selling</td>
<td>3</td>
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<tr>
<td>Approved Real Estate Elective</td>
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<td></td>
</tr>
<tr>
<td>RELE 2366</td>
<td>Practicum - Real Estate</td>
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<tr>
<td>RELE 2367</td>
<td>Practicum - Real Estate</td>
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**SUBTOTAL** 15

**Certificate of Technology Total** 30

**Capstone Experience: RELE 2366 or RELE 2367**

**Approved Real Estate Electives**

No course may be repeated for credit

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
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<td>RELE 1307</td>
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<td>RELE 1309</td>
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<tr>
<td>RELE 1325</td>
<td>Real Estate Elective</td>
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<tr>
<td>RELE 2331</td>
<td>Real Estate Elective</td>
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</table>

**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.

**First Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>RELE 1201</td>
<td>Principles of Real Estate I</td>
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<tr>
<td>RELE 1211</td>
<td>Law of Contracts</td>
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</tr>
<tr>
<td>RELE 1238</td>
<td>Principles of Real Estate II</td>
<td>2</td>
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<tr>
<td>RELE 1300</td>
<td>Contract Forms and Addenda</td>
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<td>RELE 1319</td>
<td>Real Estate Finance</td>
<td>3</td>
</tr>
<tr>
<td>RELE 2301</td>
<td>Law of Agency</td>
<td>3</td>
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</table>

**Occupational Certificate Total** 15

**Capstone Experience: RELE 1300**


A minimum of 12 semester hours (180 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, Real Estate Finance, Contract Forms and Addenda, and Law of Contracts.

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 clock or classroom hours. A real estate salesperson is required to complete a total of 18 semester (270 classroom) hours of education, by the end of their first year of licensure. 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, 2012, 18 semester hours (270 classroom hours) of the 60 semester hours (900 classroom hours) must be in core real estate courses. An applicant must have taken a real estate brokerage class.

Also, at least four years active experiences in Texas as a licensed real estate salesperson are required.

For further information write or call: The Texas Real Estate Commission, P.O. Box 12188, Capitol Station, Austin, TX 78711; 512.465.3940.

**Core Real Estate Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELE 1201</td>
<td>Principles of Real Estate I</td>
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<tr>
<td>RELE 1211</td>
<td>Law of Contracts</td>
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<tr>
<td>RELE 1238</td>
<td>Principles of Real Estate II</td>
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<tr>
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</tr>
<tr>
<td>RELE 2301</td>
<td>Law of Agency</td>
<td>3</td>
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</table>

Related Courses Acceptable Toward Broker Licensure can be found on the TREC website http://www.trec.texas.gov

**Respiratory Care**

**Central Campus**

*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.

**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 cardiopulmonary 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.
Technical Programs

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 healthcare facilities.

2. Participate as a contributing member of the healthcare 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 coursework completed and their grade point average at San Jacinto Community College.

Applicants must complete 10 semester hours as specified below with at least a B average in the three courses and no grade lower than C prior to being accepted in the program.

- BIOL 2401 or BIOL 2402, and
- ENGL 1301 or ENGL 1302, and
- MATH 1314 or MATH 1333

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 must meet all College general admission requirements. After acceptance into the program, an applicant must have a physical examination by a licensed physician and documentation of updated immunizations. Respiratory Care students must earn a grade of C or better 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. A second earned grade of D, W or F in a respiratory care 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 Respiratory Care Admission Committee and satisfy the readmission criteria specified by the Committee.

All students should take the required academic foundation courses in sequence along with professional coursework.

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 may reapply. Applicants who are accepted for admission into the Department of Respiratory Care, but who do not enroll, must reapply to be considered for admission at a later date.

A student currently on academic probation is ineligible to enroll in the Respiratory Care program.

Application Periods

- Jan. 1 through June 1
- Sept. 1 through Nov. 1

Classes begin each fall and spring term. For more information please contact the Respiratory Care Department at 281.998.6150, ext. 1864.

Respiratory Care (3RESP)

Associate of Applied Science Degree

Central Campus

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Credit</th>
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<tbody>
<tr>
<td>BIOL 2401 Human Anatomy and Physiology I</td>
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<td>*MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
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<td>ENGL 1301 Composition I</td>
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First Term

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<tbody>
<tr>
<td>HPRS 1106 Essentials of Medical Terminology</td>
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<tr>
<td>RSPT 1325 Respiratory Care Sciences</td>
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<tr>
<td>RSPT 1340 Advanced Cardiopulmonary Anatomy and Physiology</td>
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<tr>
<td>RSPT 1429 Respiratory Care Fundamentals I</td>
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<tr>
<td>BIOL 2402 Human Anatomy and Physiology II</td>
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Second Term

<table>
<thead>
<tr>
<th>Credit</th>
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<tbody>
<tr>
<td>RSPT 1267 Respiratory Care Practicum I</td>
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<tr>
<td>RSPT 2310 Cardiopulmonary Disease</td>
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<tr>
<td>RSPT 2317 Respiratory Care Pharmacology</td>
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<tr>
<td>RSPT 1431 Respiratory Care Fundamentals II</td>
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PostY1Summer

<table>
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<tr>
<td>RSPT 2355 Critical Care Monitoring</td>
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<tr>
<td>RSPT 2167 Respiratory Care Practicum II</td>
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<tr>
<td>RSPT 2314 Mechanical Ventilation</td>
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Technical Programs

Third Term

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<th>Credit</th>
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<tbody>
<tr>
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<tr>
<td>RSPT 2353 Neonatal/Pediatric Cardiopulmonary Care</td>
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<tr>
<td>ENGL 1302 Composition II or</td>
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<tr>
<td>ENGL 2311 Technical Report Writing</td>
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<td>BIOL 2420 Microbiology and Pathology</td>
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<td>PHED Activity</td>
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**SUBTOTAL** 13

Fourth Term

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>RSPT 2267 Respiratory Care Practicum IV</td>
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<td>RSPT 2258 Advanced Respiratory Care Patient Assessment</td>
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<td>RSPT 2130 Respiratory Care Examination Preparation</td>
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<td>PSYC 2301 General Psychology</td>
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<td>Speech</td>
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<td><strong>Humanities/Fine Arts</strong></td>
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**SUBTOTAL** 14

Associate of Applied Science Degree Total 72

Capstone Experience: RSPT 2258

* 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:


Restaurant Management (3CULA-RSTR)

Restaurant Management

Associate of Applied Science Degree

Central Campus

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
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<tr>
<td>RSTO 1325 Purchasing for Hospitality Operations</td>
<td>3</td>
</tr>
<tr>
<td>CHEF 1313 Food Service Operation/Systems</td>
<td>3</td>
</tr>
<tr>
<td>CHEF 1401 Basic Food Preparation</td>
<td>4</td>
</tr>
<tr>
<td>IFWA 1318 Nutrition for the Food Service Professional or</td>
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</tr>
<tr>
<td>HECO 1322 Nutrition and Diet Therapy</td>
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<td>PHED Activity</td>
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</table>

**SUBTOTAL** 17

Second Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>RSTO 1313 Hospitality Supervision</td>
<td>3</td>
</tr>
<tr>
<td>RSTO 2405 Management of Food Production and Service</td>
<td>4</td>
</tr>
<tr>
<td>Approved Elective</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1333 Contemporary Mathematics for Technical Programs or</td>
<td></td>
</tr>
<tr>
<td>MATH 1314 College Algebra</td>
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<tr>
<td>PHED Activity</td>
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**SUBTOTAL** 15

Third Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>RSTO 1301 Beverage Management</td>
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<tr>
<td>RSTO 2301 Principles of Food and Beverage Controls</td>
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</tr>
<tr>
<td>ACCT 2301 Accounting Principles I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
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**SUBTOTAL** 15

Fourth Term

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>**Behavioral or Social Science</td>
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<tr>
<td>Speech</td>
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<tr>
<td>**Humanities or Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>Approved Elective</td>
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</tr>
<tr>
<td>RSTO 2365 Practicum (or Field Experience) - Restaurant, Culinary, and Catering Management/Manager or</td>
<td></td>
</tr>
<tr>
<td>CHEF 2365 Practicum (or Field Experience) - Culinary Arts/Chef Training</td>
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</table>

**SUBTOTAL** 16

Associate of Applied Science Degree Total 63

Capstone Experience: CHEF 2365 or RSTO 2365

* College Preparatory 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.

***Students must be Texas Success Initiative (TSI) complete in order to graduate: Math level 7.

Approved Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Course</th>
<th>Course</th>
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<tbody>
<tr>
<td>CHEF 1345</td>
<td>CHEF 2365</td>
<td>CHEF 2402</td>
<td>IFWA 1305</td>
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<tr>
<td>IFWA 2441</td>
<td>PSTR 1301</td>
<td>PSTR 2431</td>
<td>CHEF 1402</td>
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<td>PSTR 2470</td>
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</table>
Restaurant Management
(4CULA-RSTR)

Certificate of Technology
Central Campus

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
HECO 1322 Nutrition and Diet Therapy .................................. 3
Subtotal 16

Second Term Credit
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 (or Field Experience) - Restaurant, Culinary, and
Catering Management/Manager or
CHEF 2365 Practicum (or Field Experience) - Culinary
Arts/Chef Training .................................................................. 3
Subtotal 16

Third Term Credit
Approved Elective ......................................................................... 3
Approved Elective ......................................................................... 3
Approved Elective ......................................................................... 4
Subtotal 10

Certificate of Technology Total 42

Capstone Experience: CHEF 2365 or RSTO 2365
Approved Electives
CHEF 1345    CHEF 2365    CHEF 2402    IFWA 1305
IFWA 2441    PSTR 1301    PSTR 2341

Surgical Technology

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 National Board of Surgical Technology and Surgical Assisting. 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 surgeons during surgery by passing instruments and other equipment to the surgeon in a prescribed manner and assisting to maintain sterility throughout the entire procedures.
### Surgical Technology (3SURT) – Associate of Applied Science Degree

**Central Campus**

<table>
<thead>
<tr>
<th>Pre-requisite</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPRS 1106 Essentials Medical Terminology</td>
<td>1</td>
</tr>
<tr>
<td>HPRS 1171 Medical Terminology - Surgical Technology</td>
<td>1</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
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</table>

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRGT 1471 Anatomy and Physiology for Surgical Tech</td>
<td>4</td>
</tr>
<tr>
<td>SRGT 1260 Clinical I Surgical Technology/Technologist</td>
<td>2</td>
</tr>
<tr>
<td>SRGT 1505 Introduction to Surgical Technology</td>
<td>5</td>
</tr>
<tr>
<td>SRGT 1509 Fundamentals of Perioperative Concepts and Techniques</td>
<td>5</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Second Term</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>SRGT 1360 Clinical II Surgical Technology/Technologist</td>
<td>3</td>
</tr>
<tr>
<td>SRGT 1541 Surgical Procedures I</td>
<td>5</td>
</tr>
<tr>
<td>HPRS 2200 Pharmacology for Health Professions</td>
<td>2</td>
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<tr>
<td>HPRS 2301 Pathophysiology</td>
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</table>

<table>
<thead>
<tr>
<th>Post Year Summer</th>
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</thead>
<tbody>
<tr>
<td>SRGT 2130 Professional Readiness</td>
<td>1</td>
</tr>
<tr>
<td>SRGT 1261 Clinical III Surgical Technology/Technologist</td>
<td>2</td>
</tr>
<tr>
<td>SRGT 1542 Surgical Procedures II</td>
<td>5</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Third Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or higher</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
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<tr>
<td>PHED Activity</td>
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<tr>
<td>Speech</td>
<td>3</td>
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<tr>
<td>PSYC 2301 General Psychology</td>
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<table>
<thead>
<tr>
<th>Fourth Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ENGL 2311 Technical Report Writing or ENGL 1302 Composition II</td>
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<td>PHED Activity</td>
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<td>*Humanities or Fine Arts</td>
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<td>Free Elective</td>
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</table>

**Capstone Experience: SRGT 1542 and SRGT 1261**

**VERIFICATION OF WORKPLACE COMPETENCIES.**

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

### Surgical Technology (4SURT) – Certificate of Technology

**Central Campus**

<table>
<thead>
<tr>
<th>Pre-requisite</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPRS 1106 Essentials Medical Terminology</td>
<td>1</td>
</tr>
<tr>
<td>HPRS 1171 Medical Terminology - Surgical Technology</td>
<td>1</td>
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<tr>
<td><strong>Subtotal</strong></td>
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</table>

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRGT 1471 Anatomy and Physiology for Surgical Tech</td>
<td>4</td>
</tr>
<tr>
<td>SRGT 1260 Clinical I Surgical Technology/Technologist</td>
<td>2</td>
</tr>
<tr>
<td>SRGT 1505 Introduction to Surgical Technology</td>
<td>5</td>
</tr>
<tr>
<td>SRGT 1509 Fundamentals of Perioperative Concepts and Techniques</td>
<td>5</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td><strong>16</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Second Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRGT 1360 Clinical II Surgical Technology/Technologist</td>
<td>3</td>
</tr>
<tr>
<td>SRGT 1541 Surgical Procedures I</td>
<td>5</td>
</tr>
<tr>
<td>HPRS 2200 Pharmacology for Health Professions</td>
<td>2</td>
</tr>
<tr>
<td>HPRS 2301 Pathophysiology</td>
<td>3</td>
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<tr>
<td><strong>Subtotal</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Post Year Summer</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRGT 2130 Professional Readiness</td>
<td>1</td>
</tr>
<tr>
<td>SRGT 1261 Clinical III Surgical Technology/Technologist</td>
<td>2</td>
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<tr>
<td>SRGT 1542 Surgical Procedures II</td>
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<tr>
<td><strong>Subtotal</strong></td>
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</table>

**Certificate of Technology Total**

8

**Capstone Experience: SRGT 1542 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.

### Truck Driving (Commercial)

**Central Campus**

**Continuing Education**

**Admission Requirements**

Applicants for the San Jacinto College commercial truck driving courses must:

- Be at least 18 years of age and pass a mandatory drug test.
- 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)
• If born outside the U.S. or a graduate 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.

• 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.

• Have a valid Texas driver’s license.

• 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 course work, 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

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

<table>
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<tr>
<th>First Course</th>
<th>Contact Hours</th>
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<tr>
<td>CVOP 1013 Professional Truck Driving I</td>
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<tr>
<td>CVOP 1040 Professional Truck Driving II</td>
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</table>

Occupational Certificate Total 246

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.

Visual Communication

Visual Communication (3VCOM)

Associate of Applied Science Degree

South Campus

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 Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 1311 Design I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 1316 Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>PHED Activity</td>
<td>1</td>
</tr>
<tr>
<td>ARTS 2313 Design Communication I or ARTC 1317 Design Communication I</td>
<td>3</td>
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<tr>
<td>ARTS 2348 Digital Art I or A</td>
<td>3</td>
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<tr>
<td>RTC 1325 Introduction to Computer Graphics</td>
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SUBTOTAL 16

Second Term

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ARTS 1312 Design II</td>
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<tr>
<td>ARTS 1317 Drawing II</td>
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</tr>
<tr>
<td>ARTS 1303 Art History I</td>
<td>3</td>
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<tr>
<td>ENGL 1302 Composition II</td>
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<tr>
<td>ARTS 2314 Design Communication II or ARTC 2347 Design Communication II</td>
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</table>

SUBTOTAL 16
Technical Programs

VISUAL COMMUNICATION (4VCOM)  
Certificate of Technology  
South Campus

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.

First Term  
ARTS 1311 Design I .................................................. 3  
ARTS 1316 Drawing I .................................................. 3  
ARTS 1301 Art Appreciation or  
ARTS 1303 Art History I or ARTS 1304 Art History II .................................. 3  
ARTS 2348 Digital Art I or  
ARTC 1325 Introduction to Computer Graphics .................................. 3  
ARTS 2313 Design Communication I or  
ARTC 1317 Design Communication I .................................. 3  
SUBTOTAL ................................................. 15

Second Term  
ARTS 1312 Design II .................................................. 3  
ARTS 1317 Drawing II .................................................. 3  
ARTS 2314 Design Communication II or  
ARTC 2347 Design Communication II .................................. 3  
SUBTOTAL ................................................. 15

Third Term  
IMED 1301 Introduction to Digital Media or  
ARTV 1351 Digital Video ........................................... 3  
ARTS 2349 Digital Art II or  
ARTC 1302 Digital Imaging I .................................. 3  
SUBTOTAL ................................................. 6

Fourth Term  
ARTC 2366 Practicum (or Field Experience) - Graphic Design,  
Commercial Art and Illustration or  
ARTC 2335 Portfolio Development for Graphic Design ............... 3  
SUBTOTAL ................................................. 3

Certificate of Technology Total ................................................. 33

Capstone Experience: ARTC 2366 or ARTC 2335

* 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.

** College Preparatory courses (those courses which have numbers beginning with C) do not apply toward the associate degree. Technical courses do not transfer to a senior institution. See an Art Department Counselor for information.
Digital Media/Computer Animation (4VCDM)

Certificate of Technology

South Campus

Students desiring skill and knowledge in the specialized area of digital media/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.

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ARTC 1325 Intro to Computer Graphics</td>
<td>3</td>
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<td><strong>SUBTOTAL</strong></td>
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First Term

<table>
<thead>
<tr>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>IMED 1301 Introduction to Digital Media</td>
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<tr>
<td>ARTV 1303 Basic Animation</td>
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<tr>
<td>ARTV 1351 Digital Video</td>
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<tr>
<td>ARTV 1345 3-D Modeling and Rendering</td>
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Second Term

<table>
<thead>
<tr>
<th>Credit</th>
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<tbody>
<tr>
<td>IMED 2345 Interactive Digital Media II</td>
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<tr>
<td>ARTV 2301 2-D Animation I</td>
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<tr>
<td>ARTV 2341 Advanced Digital Video</td>
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<td>ARTV 1341 3-D Animation I</td>
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PostY1Summer

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<tr>
<td>ARTV 2351 3-D Animation II</td>
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<tr>
<td>ARTC 2366 Commercial Art Field Experience</td>
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Certificate of Technology Total 33
Capstone Experience: ARTC 2366

Welding Technology

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.

Welding Technology (3WLD)

Associate of Applied Science Degree

Central and North Campuses

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
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<tbody>
<tr>
<td>WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW)</td>
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<tr>
<td>WLDG 1530 Introduction to Gas Metal Arc Welding (GMAW)</td>
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<tr>
<td>Speech</td>
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<td>Math 1333 Contemporary Mathematics or MATH 1314 College Algebra</td>
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<td>PHED Activity</td>
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<tr>
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Second Term

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>WLDG 1534 Introduction to Gas Tungsten Arc Welding (GTAW)</td>
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<td>WLDG 2543 Advanced Shielded Metal Arc Welding (SMAW)</td>
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<td>ENGL 1301 Composition I</td>
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<td>*Humanities or Fine Arts</td>
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Third Term

<table>
<thead>
<tr>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>WLDG 2506 Intermediate Pipe Welding</td>
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<tr>
<td>WLDG 2551 Advanced Gas Tungsten Arc Welding (GTAW)</td>
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<tr>
<td>ENGL 2311 Technical Report Writing or ENGL 1302 Composition II</td>
</tr>
<tr>
<td>ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications</td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
</tr>
</tbody>
</table>
### Combination Welder (4WLD-C)

**Certificate of Technology**

**Central and North Campuses**

The Combination Welder Certificate of Technology is designed to give intermediate and advanced welding experience to those students interested in taking Shielded Metal Arc (SMAW) Welding and Gas Tungsten Arc (GTAW) Welding on plate and pipe to meet certification tests required by industry. Instruction is provided on plate and pipe welding positions on carbon steel.

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW)</td>
<td>5</td>
</tr>
<tr>
<td>WLDG 1530 Introduction to Gas Metal Arc Welding (GMAW)</td>
<td>5</td>
</tr>
<tr>
<td>WLDG 2506 Intermediate Pipe Welding</td>
<td>5</td>
</tr>
<tr>
<td>WLDG 2530 Introduction to Gas Metal Tungsten Arc Welding (GTAW)</td>
<td>5</td>
</tr>
<tr>
<td>WLDG 2543 Advanced Shielded Metal Arc Welding (SMAW)</td>
<td>5</td>
</tr>
<tr>
<td>WLDG 2551 Advanced Gas Tungsten Arc Welding (GTAW)</td>
<td>5</td>
</tr>
</tbody>
</table>

**Second Term**

<table>
<thead>
<tr>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

**Associate of Applied Science Degree Total**

| 62 |

**External Field Experience: WLDG 2580**

**Capstone Experience: WLDG 2513 or WLDG 1405**

*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.

### Gas Shielded Welding (4WLD-GAS)

**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.

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLDG 1305 Art Metals</td>
<td>3</td>
</tr>
<tr>
<td>WLDG 1308 Metal Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW)</td>
<td>5</td>
</tr>
<tr>
<td>WLDG 1530 Introduction to Gas Metal Tungsten Arc Welding (GTAW)</td>
<td>5</td>
</tr>
</tbody>
</table>

**Occupational Certificate Total**

| 16 |

**Capstone Course: WLDG 1530**

### Fourth Term

<table>
<thead>
<tr>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**WLDG 2553 Advanced Pipe Welding**

| 3 |

**Behavioral or Social Sciences**

| METL 1405 Welding Metallurgy I or WLDG 2513 Intermediate Welding Using Multiple Processes or WLDG 2580 Cooperative Education-Welding Technology/Welder |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| PHED Activity                                                                                                                                                                                   | 1      |

| 13 |

**External Field Experience: WLDG 2580**

**Capstone Experience: WLDG 2513 or WLDG 1405**

| 3 |

**Approved Elective**

| 4 |

**Certificate of Technology Total**

| 24 |

**External Field Experience: WLDG 2580**

**Capstone Experience: WLDG 2513**

| 3 |

**Approved Electives**

| DFTG 1405 DFTG 2417 NDTE 1410 METL 1405 METL 2435 WLDG 1528 WLDG 2543 WLDG 2553 WLDG 2580 WLDG 2506 |
|---------------------------------------------------------------------------------------------------|--------|

### Art-Welding (6WLD-ART)

**Occupational Certificate**

**North Campus**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW)</td>
<td>5</td>
</tr>
<tr>
<td>WLDG 1530 Introduction to Gas Metal Tungsten Arc Welding (GTAW)</td>
<td>5</td>
</tr>
</tbody>
</table>

**Occupational Certificate Total**

| 16 |

**Capstone Course: WLDG 1530**

## Technical Programs

![Technical Programs Banner](https://www.sanjac.edu/209)
Stick Pipe Welder (6WLD-STI)

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 in Welding Technology.

First Term

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW)</td>
<td>5</td>
</tr>
<tr>
<td>WLDG 2506 Intermediate Pipe Welding</td>
<td>5</td>
</tr>
<tr>
<td>WLDG 2543 Advanced Shield Metal Arc Welding (SMAW)</td>
<td>5</td>
</tr>
<tr>
<td>WLDG 2553 Advanced Pipe Welding</td>
<td>5</td>
</tr>
<tr>
<td>Occupational Certificate Total</td>
<td>20</td>
</tr>
</tbody>
</table>

Capstone Experience: WLDG 2553

Structural Welder (6WLD-STR)

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 in Welding Technology.

First Term

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW)</td>
<td>5</td>
</tr>
<tr>
<td>WLDG 2543 Advanced Shielded Metal Arc Welding (SMAW)</td>
<td>5</td>
</tr>
<tr>
<td>WLDG 2580 Cooperative Education Welding or WLDG 2553 Advanced Pipe Welding or WLDG 1534 Introduction to Gas Tungsten Arc Welding (GTAW) or WLDG 2506 Intermediate Pipe Welding</td>
<td>5</td>
</tr>
<tr>
<td>Occupational Certificate Total</td>
<td>15</td>
</tr>
</tbody>
</table>

Capstone Experience: WLDG 2580 or WLDG 2553 or WLDG 1534

Combination Welding (CE-WLDG)

Continuing Education Certificate

Central and North Campuses

Contact Hours

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLDG 1028–Introduction to Shielded Metal Arc Welding (SMAW)</td>
<td>128 Contact Hours</td>
</tr>
<tr>
<td>WLDG 1034–Introduction to Gas Tungsten Arc Welding (GTAW)</td>
<td>128 Contact Hours</td>
</tr>
<tr>
<td>WLDG 1035–Introduction to Pipe Welding</td>
<td>128 Contact Hours</td>
</tr>
<tr>
<td>WLDG 2043–Advanced Shielded Metal Arc Welding (SMAW)</td>
<td>128 Contact Hours</td>
</tr>
<tr>
<td>WLDG 2051–Advanced Gas Tungsten Arc Welding (GTAW)</td>
<td>128 Contact Hours</td>
</tr>
<tr>
<td>WLDG 2053–Advanced Pipe Welding</td>
<td>128 Contact Hours</td>
</tr>
<tr>
<td>Certificate of Technology Total</td>
<td>768 Contact Hours</td>
</tr>
</tbody>
</table>

Capstone Experience: WLDG 2506 or WLDG 2553 or WLDG 1534

Sheet Metal Welder (CE-WLDSM)

Continuing Education Certificate

Continuing Education

North Campus

Contact Hours

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCHN 1001–Sheet Metal I</td>
<td>72 Contact Hours</td>
</tr>
<tr>
<td>MCHN 1049–Sheet Metal II</td>
<td>72 Contact Hours</td>
</tr>
<tr>
<td>MCHN 1071–Sheet Metal IIB</td>
<td>72 Contact Hours</td>
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<tr>
<td>MCHN 1053–Sheet Metal III</td>
<td>72 Contact Hours</td>
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<tr>
<td>MCHN 1072–Sheet Metal IIIIB</td>
<td>72 Contact Hours</td>
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<tr>
<td>MCHN 2030–Sheet Metal IV</td>
<td>72 Contact Hours</td>
</tr>
<tr>
<td>MCHN 2071–Sheet Metal IVB</td>
<td>72 Contact Hours</td>
</tr>
<tr>
<td>Certificate of Technology Total</td>
<td>504 Contact Hours</td>
</tr>
</tbody>
</table>

Capstone Experience: MCHN 2071