

San Jacinto Community
College District

Technical Programs



TECHNICAL PROGRAMS

Major Codes	Technical Programs
3ACNT	Accounting A.A.S.
4ACNT	Accounting Certificate of Technology
5 ACNT	Accounting Level 2 Certificate
6ACNT	Accounting Occupational Certificate
3AERO-MGT	Aeronautical Technology-Aviation Management A.A.S.
4AERO-DSP	Aeronautical Technology-Aircraft Dispatcher Certificate of Technology
3AERO-PDP	Aeronautical Technology-Pilot Development Program A.A.S.
4AERO-PLT	Aeronautical Technology-Career Pilot Certificate of Technology
3AIRC	Air Conditioning Technology A.A.S.
4AIRC	Air Conditioning Certificate of Technology
6AIRC	Air Conditioning Occupational Certificate
4AIRC-CI	Air Conditioning-Commercial & Industrial Certificate of Technology
3ART-DSN	Art and Design A.A.S.
4ART-DSN	Art and Design Certificate of Technology
6ART-DSN	Art and Design Occupational Certificate
6ACRT-AST	Automotive Collision Repair Assistant Occupational Certificate
3ABCR-MGT	Automotive Collision Repair Management Specialty A.A.S.
4ABCR-MGT	Automotive Collision Repair Management Specialty Certificate of Technology
3ABDR-CR	Automotive Collision Repair Technology A.A.S.
4ABCR-CR	Automotive Collision Repair Technology Certificate of Technology
4ABCR-NC	Automotive Collision Repair Non-Collision Certificate of Technology
6ACRT-PNT	Automotive Painting Occupational Certificate
3AUTO	Automotive Technology A.A.S.
5AUTO	Automobile Technology Level 2 Certificate
6AUTO	Automobile Technology Occupational Certificate
3AUTO-C	Automotive Technology-Chrysler A.A.S.
4AUTO-C	Automotive Technology-Chrysler Certificate of Technology
MAUTO-C	Automobile Technology-Chrysler Marketable Skills Achievement Award
3AUTO-F	Automotive Technology-Ford A.A.S.
4AUTO-F	Automotive Technology-Ford Certificate of Technology
5AUTO-F	Automotive Technology-Ford Level 2 Certificate
MAUTO-F	Automotive Technology-Ford Marketable Skills Achievement Award
3AUTO-G	Automotive Technology-GM A.A.S.
3AUTO-H	Automotive Technology-Honda A.A.S.

Major Codes	Technical Programs
4AUTO-H	Automotive Technology-Honda Certificate of Technology
5AUTO-H	Automotive Technology-Honda Level 2 Certificate
3AUTO-TTEN	Automotive Technology-Technician Training & Education Network A.A.S.
4AUTO-TTEN	Automotive Technology-Technician Training & Education Network Certificate
3BIOMD-CET	Biomedical Clinical Equipment Technician A.A.S.
4BIOMD-CET	Biomedical Clinical Equipment Technician Certificate of Technology
5BIOMD-CET	Biomedical Clinical Equipment Technician Level 2 Certificate
6BIOMD-CET	Biomedical Clinical Equipment Technician Occupational Certificate
3BMGT-ENTR	Business Management-Small Business Entrepreneur A.A.S.
4BMGT-ENTR	Business Management-Small Business Entrepreneur Certificate of Technology
3BMGT-MGMT	Business Management-Management A.A.S.
4BMGT-MGMT	Business Management-Management Certificate of Technology
6BMGT-MGMT	Business Management-Management Occupational Certificate
6BMGT-MRKG	Business Management-Foundations of Marketing Occupational Certificate
MBMGT-MGMT	Business Management-Management Marketable Skills Achievement Award
3BOFT-EXE	Business Office Technology-Executive Administrative Assistant A.A.S.
4BOFT-E	Business Office Technology Executive Administrative Certificate of Technology
5BOFT-E	Business Office Technology-Executive Administrative Level 2 Certificate
6BOFT-E	Business Office Technology-executive Administrative Assistant Occupational Certificate
EBOTM	Business Office Technology Medical Office Support Enhanced Skills Certificate
MBOTOA	Business Office Technology - Office Assistant Marketable Skills Achievement Award
6CHID-ADM	Child Care-Administrative Occupational Certificate
6CHID-DIR	Child Development-Directors Occupational Certificate
3CHID-ECE	Child Development/Early Child Education A.A.S.
4CHID-ECE	Child Development/Early Child Education Certificate of Technology
4CHID-TA	Child Development-Teachers Aide Certificate of Technology
MCHID	Child Development & Family Studies Marketable Skills Achievement Award
MCHID-CUR	Child Development Curriculum Specialist Marketable Skills Achievement Award

TECHNICAL PROGRAMS

Major Codes	Technical Programs
MCHID-PC	Child Development Parent/Child Specialist Marketable Skills Achievement Award
6IT-AITS	Computer Information Technology-Advanced Information Technology Security Occupational Certificate
5IT-ANW	Computer Information Technology-Advanced Networking Level 2 Certificate
3IT-APPL	Computer Information Technology-Applications Program A.A.S.
4IT-APPL	Computer Information Technology-Applications Program Certificate of Technology
6IT-BC	Computer Information Technology-Begin Network CISCO Occupational Certificate
6IT-CHS	Computer Information Technology-Computer Hardware Support Occupational Certificate
6IT-CORE	Computer Information Technology-Core Information Technology Occupational Certificate
4IT-DBD	Computer Information Technology-Database Design Certificate of Technology
AIT-EMGRN	Computer Information Technology-Emerging Networking Technologies Advanced Technical Certificate
3IT-DSMN	Computer Information Technology-Desktop Support and Microsoft Network Administration Specialty A.A.S.
4IT-DSMN	Computer Information Technology-Desktop Support and Microsoft Network Administration Specialty Certificate of Technology
6IT-FNDLS	Computer Information Technology-Fundamentals Occupational Certificate
3IT-ITS	Computer Information Technology-Information Technology Security A.A.S.
4IT-ITS	Computer Information Technology-Information Technology Security Certificate of Technology
4IT-GAMS	Computer Information Technology-Simulation & Game Design Certificate of Technology
5IT-GAMS	Computer Information Technology-Advanced Simulation & Game Design Level 2 Certificate
6IT-GAME	Computer Information Technology-Introduction Game Design and Development Occupational Certificate
3IT-NW-C	Computer Information Technology-Network Administrative-CISCO A.A.S.
4IT-NW-C	Computer Information Technology-Network Administrative-CISCO Certificate of Technology
4IT-WBDI	Computer Information Technology-Web Design/Implement Certificate of Technology
3IT-WBDV	Computer Information Technology-Web Application Development A.A.S.
4IT-WBDV	Computer Information Technology-Web Application Development Certificate of Technology
3CSTR-MGMT	Construction Management Technology A.A.S.

Major Codes	Technical Programs
4CSTR-MGMT	Construction Management Technology Certificate of Technology
MCOSM-ELE	Cosmetology Eyelash Extension Marketable Skills Achievement Award
4COSM-FAC	Cosmetology Facial Certificate of Technology
MCOSM-HWV	Cosmetology Hairweaving Marketable Skills Achievement Award
4COSM-OPHS	Cosmetology High School Operator Certificate of Technology
3COSM-INST	Cosmetology Instructor A.A.S.
4COSM-INST	Cosmetology Instructor Certificate of Technology
6COSM-INST	Cosmetology Instructor Occupational Certificate
6COSM-NAI	Cosmetology-Nail Technology Occupational Certificate
3COSM-OP	Cosmetology Operator A.A.S.
4COSM-OP	Cosmetology Operator Certificate of Technology
4CRIJ-CORE	Criminal Justice Certificate of Technology
4CRIJ-CORR	Criminal Justice Corrections Certificate of Technology
4CRIJ-CSTS	Criminal Justice Crime Scene Certificate of Technology
3CRIJ-LE	Criminal Justice Law Enforcement A.A.S.
4CRIJ-LE	Criminal Justice Law Enforcement Certificate of Technology
3CRIJ-SS	Criminal Justice Social Service and Corrections A.A.S.
4CRIJ-SS	Criminal Justice Social Services Certificate of Technology
3CULA	Culinary Arts A.A.S.
4CULA	Culinary Arts Certificate of Technology
3CULA-C	Culinary Arts-Chef Training A.A.S.
4CULA-C	Culinary Arts-Chef Training Certificate of Technology
4CULA-HCUI	Culinary Arts - Healthy Cuisine Certificate of Technology
6CULA-ACKS	Culinary Arts- Assistant Cook Specialty Occupational Certificate
6CULA-AFDS	Culinary Arts-Advanced Foods Specialty Occupational Certificate
6CULA-ARFM	Culinary Arts- Assistant Restaurant/Food Manager Occupational Certificate
6CULA-BKRS	Culinary Arts-Baker Specialty Occupational Certificate
MCULA-P	Culinary Arts Pastry/Garde Manager Marketable Skills Achievement Award
3CULA-PC	Culinary Arts-Pastry Chef Specialty A.A.S.
4CULA-PC	Culinary Arts-Pastry Chef Specialty Certificate of Technology
3CULA-RSTR	Culinary Arts-Restaurant Management A.A.S.

TECHNICAL PROGRAMS

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Major Codes	Technical Programs
4CULA-RSTR	Culinary Arts-Restaurant Management Certificate of Technology
4DENT	Dental Assisting Certificate of Technology
3DEMR	Diesel Technology A.A.S.
4DEMR	Diesel Technology Certificate of Technology
3DIET-FSVC	Dietetics-Food Service Management A.A.S.
4DIET-FSVC	Dietetics-Food Service Management Certificate of Technology
6DIET-SFSV	Dietetics-School Food Service Specialty Occupational Certificate
MDIET	Dietetics-Dietary Manager Marketable Skills Achievement Award
3ELEC	Electrical Technology A.A.S.
4ELEC-TEC	Electrical Technology Certificate of Technology
6ELEC-TEC	Electrical Technology Occupational Certificate
3ELEC-PWRG	Electrical Technology-Power Generation Technician Specialty A.A.S.
4ELEC-PWRG	Electrical Technology-Power Generation Technician Specialty Certificate of Technology
6ELCTRN-COMM	Electronics Communications Technology Occupational Certificate
4ELEC-EMRG	Electronics-Emerging Electronics Technology Certificate of Technology
6ELCTRN-MT	Electronics Maintenance Technology Occupational Certificate
3ELECTRON	Electronics Technology A.A.S.
4ELECTRON	Electronics Technology Certificate of Technology
3EMT	Emergency Medical Technology A.A.S.
4EMT	Emergency Medical Technology Certificate of Technology
6EMT	Emergency Medical Occupational Certificate
6EMT-B&I	Emergency Medical-Basic and Intermediate Occupational Certificate
3DFTG	Engineering Design Graphics A.A.S.
4DFTG	Engineering Design Graphics Certificate of Technology
5DFTG	Engineering Design graphics Level 2 Certificate
6DFTG	Engineering Design Graphics-Foundation Occupational Certificate
3DFT-A	Engineering Design Graphics-Architectural/Civil/Structural Specialty A.A.S.
4DFT-A	Engineering Design Graphics-Architectural/Civil/Structural Certificate of Technology
5DFT-A	Engineering Design Graphics-Architectural/Civil/Structural Specialty Level 2 Certificate
3DFT-M	Engineering Design Graphics-Mechanical Specialty A.A.S.
4DFT-M	Engineering Design Graphics-Mechanical Specialty Certificate of Technology
5DFT-M	Engineering Design Graphics Mechanical Specialty Level 2 Certificate

Major Codes	Technical Programs
3DFT-PI	Engineering Design Graphics-Petro/Industrial Specialty A.A.S.
4DFT-PI	Engineering Design Graphics-Petro/Industrial Specialty Certificate of Technology
5DFT-PI	Engineering Design Graphics-Petro/Industrial Specialty Level 2 Certificate
3DFT-TA	Engineering Design Graphics-Technical Animator/3D Modeler Specialty A.A.S.
4DFT-TA	Engineering Design Graphics-Technical Animator/3D Modeler Specialty Certificate of Technology
5DFT-TA	Engineering Design Graphics-Technical Animator/3D Modeler Specialty Level 2 Certificate
3EYE	Eye Care Technology A.A.S.
4EYE	Eye Care Technology Certificate of Technology
6EYE-PREP	Optician Preparatory Occupational Certificate
3FIRE-PROT	Fire Protection Technology-Firefighting A.A.S.
4FIREFTG	Fire Protection Technology Certificate of Technology
3HITT-CAN	Health Information Management-Cancer Data Management Specialty A.A.S.
3HITT-INF	Health Information Management A.A.S.
4HITT-MDBC	Health Information Management-Medical Bill/Coding Certificate of Technology
4HITT-MDC	Health Information Management-Medical Coding Certificate of Technology
AHITT-CAN	Health Information Management-Cancer Data Management Advanced Technical Certificate
3INST	Instrumentation Technology A.A.S.
4INST	Instrumentation Technology Certificate of Technology
4INST-ECFC	Instrumentation Energy Career Foundation Core Certificate of Technology
5INST	Instrumentation Certificate of Technology Level 2
EINST	Instrumentation Technology Enhanced Skills Certificate
6INST-ANLY	Instrumentation Analytical Occupational Certificate
MINST	Instrumentation Analyzer Marketable Skills Achievement Award
3INT-DSGN	Interior Design A.A.S.
4INTD-DSGN	Interior Design Certificate of Technology
EINT-DSGN	Interior Design Enhanced Skills Certificate
MINTD	Interior Decorator Marketable Skills Achievement Award
6INT-DDII	Interior Design-Decorator II Occupational Certificate
3INTL-LOG	International Business and Logistics A.A.S.
4INTL-LOG	International Business and Logistics Certificate of Technology

TECHNICAL PROGRAMS

Major Codes	Technical Programs
6INTL-LOG	International Business and Logistics Occupational Certificate
MINTL-LOG	International Business and Logistics Marketable Skills Achievement Award
3INTL-MAR	International Business and Logistics-Maritime A.A.S.
4INTL-MAR	International Business and Logistics-Maritime Certificate of Technology
6INTL-MAR	International Business and Logistics-Maritime Occupational Certificate
4LTRM-CARE	Long-Term Care Administrative Certificate of Technology
3MARITIME	Maritime Technology A.A.S.
4MAR-ABSM	Maritime-Able-Bodied Seaman Certificate of Technology
4MAR-CMRNR	Maritime-Compotent Mariner Certificate of Technology
5MAR-PMRNR	Maritime-Professional Mariner Level 2 Certificate
4MASG-THPY	Massage Therapy Certificate of Technology
4MED-ASST	Medical Assisting Certificate of Technology
6MED-CLA	Medical Laboratory Technology- Clinical Laboratory Assistant Occupational Certificate
3MED-SONO	Medical Imaging-Diagnostic Medical Sonography A.A.S.
6MRAD-MRI	Medical Imaging-Magnetic Resonance Occupational Certificate
3MED-LABT	Medical Laboratory Technology A.A.S.
3MED-RAD	Medical Radiography A.A.S.
EMRAD-CT	Medical Radiology-Computer Tomography Enhanced Skills Certificate
EMRAD-MAMM	Medical Radiography-Mammography Enhanced Skills Certificate
3MH-PSYC	Mental Health Clinical and Counseling Psychology A.A.S.
4MH-SAC	Mental Health Substance Abuse Counseling Certificate of Technology
6MH-SAC	Mental Health Substance Abuse Counseling Occupational Certificate
4MH-TECH	Mental Health Technician Certificate of Technology
3MUS-RCRD	Music Recording A.A.S.
4MUS-AUDI	Music-Techniques-Audio Engineering Certificate of Technology
4MUS-BRCST	Music-Audio Broadcast Certificate of Technology
6MUS-SOUND	Music-Sound Recording Occupational Certificate
3WLD-NDT	Non-Destructive Testing Technology A.A.S.
4WLD-NDT	Non-Destructive Testing Certificate of Technology
6WLD-QAT	Non-Destructive Testing Technology-Quality Assurance Technology Occupational Certificate
3NUR-ADN	Nursing RN A.A.S.

Major Codes	Technical Programs
3NUR-LMOB	Nursing LVN-RN Mobility A.A.S.
3NUR-LTRN	Nursing LVN-RN Transition A.A.S.
4NUR-LVN	Nursing-Licensed Vocational Nurse Certificate of Technology
3NUR-PMOB	Nursing-Paramedic-RN Mobility A.A.S.
3NUR-PTRN	Nursing-Paramedic-RN Transition A.A.S.
3OCC-HLTH	Occupational Health and Safety A.A.S.
4OCC-HLTH	Occupational Health & Safety Certificate of Technology
3PARA-LGL	Paralegal A.A.S.
4PHAR	Pharmacy Technician Certificate of Technology
MPIPEFIT	Pipefitting/Fabricator Marketable Skills Achievement Award
3PH-THRPY	Physical Therapy Assistant A.A.S.
3PROT	Process Technology A.A.S.
4PROT	Process Technology Certificate of Technology
3PROT-CHM	Process Technology-Chemical Lab Technology A.A.S.
3PROT-PWRG	Process Technology-Power Generation Technology A.A.S.
4PROT-PWRG	Process Technology-Power Generation Technology Certificate of Technology
3REAL	Real Estate A.A.S.
4REAL	Real Estate Certificate of Technology
6REAL	Real Estate Occupational Certificate
3RESP	Respiratory Care A.A.S.
3SURT	Surgical Technology A.A.S.
4SURT	Surgical Technology Certificate of Technology
3WLD	Welding Technology A.A.S.
4WLD-C	Welding-Combination Welder Certificate of Technology
4WLD-GAS	Welding-Gas Shielded Arc Certificate of Technology
6WLD-ART	Welding-Art Welding Occupational Certificate
6WLD-STI	Welding-Stick Pipe Occupational Certificate
6WLD-STR	Welding-Structural Welder Occupational Certificate

TECHNICAL PROGRAMS

Accounting

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	Credit
ACCT 2301 Accounting Principles I	3
ACNT 1331 Federal Income Tax: Individual	3
BUSI 1301 Introduction to Business	3
Subtotal	9

Second Term	Credit
ACCT 2302 Accounting Principles II	3
ACNT 1329 Payroll and Business Tax Accounting	3
ACNT 1311 Intro to Computerized Accounting	3
BCIS 1305 Business Computer Applications	3
Subtotal	12

Occupational Certificate Total 21
Capstone Experience: ACNT 1311

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	Credit
ACCT 2301 Accounting Principles I.....	3
ACNT 1331 Federal Income Tax Individual.....	3
BUSI 1301 Introduction to Business	3
BCIS 1305 Business Computer Apps.....	3
BUSI 2301 Business Law I.....	3
Subtotal	15

Second Term	Credit
ACCT 2302 Accounting Principles II.....	3
ACNT 2303 Intermediate Accounting I.....	3
ACNT 1329 Payroll/Business Tax Acct.....	3
ACNT 1311 Intro to Computerized Acct.....	3
BMGT 1341 Business Ethics	3
SPCH 1315 Public Speaking or 1321 Business and Professional Speech	3
Subtotal	18

Certificate of Technology Total 33
Capstone Experience: ACNT 1311

TECHNICAL PROGRAMS

Accounting (5ACNT)

Level II Certificate

Central and North Campuses

The Accounting Level II Certificate provides specialized accounting courses in addition to those required for the Certificate of Technology in Accounting to prepare students for entry into an accounting career.

All of the courses required for this Accounting Level II Certificate also apply toward the Associate of Applied Science Degree in Accounting.

First Term

Credit

ACCT 2301 Accounting Principles I	3
ACNT 1331 Federal Income Tax Individual	3
BUSI 1301 Introduction to Business	3
BCIS 1305 Business Computer Applications	3
BUSI 2301 Business Law I	3

Subtotal **15**

Second Term

Credit

ACCT 2302 Accounting Principles II	3
ACNT 1329 Payroll and Business Tax Accounting	3
ACNT 1311 Introduction to Computerized Accounting	3
BMGT 1341 Business Ethics	3
BUSG 2309 Small Business Management and Intrepreneurship	3
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	3

Subtotal **18**

Third Term

Credit

ACNT 2303 Intermediate Accounting I	3
ACNT 2309 Cost Accounting	3
BUSI 2304 Business Communications	3
ENGL 1301 Composition I	3
ACNT 2366 Practicum- Accounting	3

Subtotal **15**

Level II Certificate Total

48

Capstone Experience: ACNT 2366

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

Credit

ACCT 2301 Accounting Principles I.....	3
ACNT 1331 Federal Income Tax: Individual	3
BUSI 1301 Introduction to Business	3
BCIS 1305 Business Computer Applications.....	3
BUSI 2301 Business Law I.....	3

Subtotal **15**

Second Term

Credit

ACCT 2302 Accounting Principles II.....	3
ACNT 1329 Payroll and Business Tax Accounting	3
ACNT 1311 Introduction to Computerized Acct.....	3
BUSG 2309 Small Business Management.....	3
BMGT 1341 Business Ethics	3
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	3

Subtotal **18**

Third Term

Credit

ACNT 2303 Intermediate Accounting I.....	3
ACNT 2309 Cost Accounting	3
BUSI 2304 Business Communications.....	3
ENGL 1301 Composition I.....	3
Economics or Psychology or Sociology.....	3

Subtotal **15**

Fourth Term

Credit

ACNT 2366 Practicum- Accounting	3
ACNT 2304 Intermediate Accounting II.....	3
ENGL 2311 Technical Report Writing or ENGL 1302 English Composition II	3
Math 1333 Contemporary Mathematics or MATH 1314 College Algebra	3*
Humanities or Fine Arts.....	3

Subtotal **15**

Associate of Applied Science Degree Total

63

Capstone Experience: ACNT 2366

* Courses that satisfy this requirement are listed in the Humanities and Fine Arts section of the Transfer Core Curriculum. Aeronautical Technology

TECHNICAL PROGRAMS

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, multi-engine and/or flight instructor rating may apply for advanced placement testing.
 - a. Up to 16 semester hours of credit may be awarded by advanced placement testing.
 - b. All flight course requirements must be verified by an aeronautical department examination of the student's logbook.

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

- a. Student's failure to conform to published FAA regulations
 - b. Student's failure to conform to the flight contractor's College-approved course syllabus
 - c. Student's involvement in one or more FAA reportable accidents or incidents
- 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 preregistration 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.

Aviation Management (3AERO-MGT)

First Term	Credit
AVIM 1301 Introduction to Aviation Management.....	3
AIRP 1311 Flight Theory.....	3
AIRP 1307 Aviation Meteorology.....	3
AIRP 1347 Human Factors in Aviation	3
ENGL 1301 Composition I.....	3
Subtotal	15

Second Term	Credit
AIRP 1301 Air Navigation.....	3
*MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra	3
AVIM 2339 Aviation Marketing.....	3
AIRP 1345 Aviation Safety	3
AVIM 2331 Airline Management.....	3
Subtotal	15

Third Term	Credit
AIRP 1451 Instrument Ground School	4
ACCT 2301 Accounting Principles I.....	3
BUSI 2301 Business Law I.....	3
HRPO 2301 Human Resource Management.....	3
**Behavioral/Soc Sci Elective	3
Subtotal	16

Fourth Term	Credit
Speech.....	3
ENGL 2311 Technical Report Writing or ENGL 1302 Composition II.....	3
AIRP 2433 Aircraft Systems	4
**Humanities or Fine Arts.....	3
AVIM 2335 Airport Management.....	3
Subtotal	16

Associate of Applied Science Degree Total **62**
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 Fine Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

Career Pilot (4AERO-PLT)

Certificate of Technology

Central Campus

First Term	Credit
AIRP 1301 Air Navigation.....	3
AIRP 1311 Flight Theory.....	3
AIRP 1307 Aviation Meteorology.....	3
AIRP 1215 Private Flight.....	2
Subtotal	11

Second Term	Credit
AIRP 2250 Instrument Flight.....	2
AIRP 1341 Advanced Air Navigation.....	3
AIRP 1451 Instrument Ground School.....	4
AIRP 2331 Advanced Meteorology.....	3
Subtotal	12

Third Term	Credit
AIRP 2337 Commercial Ground School.....	3
AIRP 2239 Commercial Flight.....	2
AIRP 2251 Multiengine Flight or AIRP 2236 Certified Flight Instructor - Airplane or AIRP 2243 Flight Instructor - Multiengine Airplane or AIRP 2242 Flight Instructor - Instrument Airplane.....	2
Subtotal	7

Certificate of Technology Total 30
Capstone Experience: Eligible for Federal Aviation Administration, Private, Commercial, Instrument and Flight Instructor or Multi-Engine or Instrument Flight Instructor or Multi-Engine Flight Instructor written and practical examinations.

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

Pilot Development Program (3AERO-PDP)

Associate of Applied Science Degree

Central Campus

The Pilot Development Program (PDP) at San Jacinto College prepares qualified students to enter the private and commercial aviation industry. The Pilot Development Program is designed to meet the needs of student who plan for a career as a private or commercial pilot. Students have the opportunity to earn Federal Aviation Administration (FAA) certifications for private and commercial pilot, instrument ratings and multiengine ratings.

For additional information contact the Aeronautical Technology program director or department chair.

First Term	Credit
AIRP 1301 Air Navigation.....	3
AIRP 1311 Flight Theory.....	3
AIRP 1307 Aviation Meteorology.....	3
AIRP 1215 Private Flight.....	2
ENGL 1301 Composition I.....	3
Subtotal	14

Second Term	Credit
AIRP 2250 Instrument Flight.....	2
AIRP 1341 Advanced Air Navigation.....	3
AIRP 1451 Instrument Ground School.....	4
AIRP 2331 Advanced Meteorology.....	3
*MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra.....	3
Subtotal	15

PostY1Summer	Credit
AIRP 1347 Human Factors in Aviation.....	3
AVIM 1301 Introduction to Aviation Management.....	3
Subtotal	6

TECHNICAL PROGRAMS

Third Term	Credit
AIRP 2337 Commercial Ground School.....	3
AIRP 2239 Commercial Flight.....	2
AIRP 1343 Aerodynamics.....	3
AIRP 2433 Aircraft Systems	4
**Behavioral or Social Sciences.....	3
Subtotal	15

Fourth Term	Credit
AIRP 2251 Multiengine Flight or AIRP 2236 Certified Flight Instructor - Airplane or AIRP 2242 Flight Instructor - Instrument Airplane or AIP 2243 Flight Instructor - Multiengine Airplane	2
**Humanities or Fine Arts.....	3
AIRP 2357 Turbine Aircraft Systems Ground School.....	3
ENGL 2311 Technical Report Writing.....	3
Speech.....	2
Subtotal	13

Associate of Applied Science Degree Total 64
Capstone Experience: Eligible for Federal Aviation Administration, Private, Commercial and Instrument written and practical 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 Fine Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

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 the student 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.

TECHNICAL PROGRAMS

Air Conditioning Technology

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	Credit
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
Occupational Certificate Total	16
Capstone Experience: HART 1441	

Air Conditioning Technology (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	Credit
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	Credit
HART 2431 Advanced Electricity	4
HART 2441 Commercial Air Conditioning	4
HART 2301 Air Conditioning 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			

TECHNICAL PROGRAMS

Commercial and Industrial Air Conditioning (4AIRC-CI)

Certificate of Technology

North and South Campuses

	Credit
HART 1401 Basic Electricity for HVAC	4
HART 1407 Refrigeration Principles	4
HART 1441 Residential Air Conditioning	4
HART 1445 Gas and Electrical Heating	4
Subtotal	16

Second Term

Credit

HART 2431 Advanced Electricity	4
HART 2441 Commercial Air Conditioning	4
HART 2368 Practicum (or Field Experience)-Heating, Air Conditioning and Refrigeration Technology/Technician or HART 2301 Air Conditioning and Refrigeration Codes	3
Air Conditioning Approved Elective.....	3
Subtotal	14

Third Term

Credit

HART 2302 Commercial A/C System Design	3
HART 2343 Industrial Air Conditioning	3
HART 2334 Advanced Air Conditioning Controls	3
Air Conditioning Approved Elective.....	3
Subtotal	12

Certificate of Technology Total

42

Capstone Experience: HART 2343

Approved Electives

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

Air Conditioning Technology (3AIRC)

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

Credit

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

Credit

HART 2442 Commercial Refrigeration	4
HART 2431 Advanced Electricity	4
HART 2441 Commercial Air Conditioning	4
ENGL 1301 Composition I.....	3

Subtotal

15

Third Term

Credit

Air Conditioning Approved Elective.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or higher.....	3
*Behavioral or Social Science.....	3
Air Conditioning Approved Elective.....	3
BUSG 2309 Small Business Management.....	3

Subtotal

15

Fourth Term

Credit

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
*Humanities or Fine Arts.....	3

Subtotal

15

Associate of Applied Science Degree Total

61

Capstone Experience: HART 2301 or HART 2368

** Courses which satisfy this requirement are listed in the Humanities and Fine 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	

TECHNICAL PROGRAMS

Applied Computer Electronics Technology

See *Electronics Technology*

Art and Design

The Art and Design technical curriculum is designed to provide basic preparation for entry-level employment within the greater design industry. The program will develop basic skills across a variety of design concepts and applications, and electives will enable the student to specialize in areas such as design communications, digital media and animation, and photo and video.

Art and Design (6ART-DSN)

Occupational Certificate

South Campus

This Occupational Certificate is designed to enable students to quickly build a broad foundation of design techniques and applications. All courses required for the Art and Design Occupational Certificate may be used in completing the Art and Design Certificate of Technology and associate of applied science degree.

First Term	Credit
IMED 1301 Introduction to Digital Media.....	3
PHTC 1311 Fundamentals of Photography.....	3
ARTS 2348 Digital Art I or ARTC 1325 Introduction to Computer Graphics.....	3
Subtotal	9

Second Term	Credit
IMED 1316 Web Page Design I.....	3
ARTV 1351 Digital Video.....	3
ARTS 2349 Digital Art II or ARTC 1302 Digital Imaging I.....	3
ARTC 2335 Portfolio Development for Graphic Design or ARTC 2366 Practicum (or Field Experience) - Commercial and Advertising Art.....	3
Subtotal	12

Occupational Certificate Total	21
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Art and Design (4ART-DSN)

Certificate of Technology

South Campus

This Certificate of Technology is designed to meet the needs of students who desire to enter the design workforce with a more specialized skillset. Building off the Occupational Certificate, students will complete four electives from one of the three specialized tracts offered: design communications, digital media and animation, and photo and video. All courses required for the Certificate of Technology may be used in completing the Art and Design Associate of Applied Science degree.

First Term	Credit
PHTC 1311 Fundamentals of Photography.....	3
IMED 1301 Introduction to Digital Media.....	3
Approved Elective.....	3
ARTS 2348 Digital Art I or ARTC 1325 Introduction to Computer Graphics.....	3

Subtotal	12
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Second Term

Second Term	Credit
IMED 1316 Web Page Design I.....	3
ARTV 1351 Digital Video.....	3
Approved Elective.....	3
ARTC 2335 Portfolio Development for Graphic Design or ARTC 2366 Practicum (or Field Experience) - Commercial and Advertising Art.....	3
ARTS 2349 Digital Art II or ARTC 1302 Digital Imaging I.....	3

Subtotal	15
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Third Term

Third Term	Credit
Approved Elective.....	3
Approved Elective.....	3

Subtotal	6
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Certificate of Technology Total

33

Capstone Course: the 4th and final of the Approved Electives from the specific specialty block outlined under Electives. Completion of the entire block is required for the Certificate of Technology.

Approved Electives for the Art and Design Certificate of Technology are grouped into specialty blocks. Faculty will counsel students to fill their four approved elective spots with the courses from a single specialty block below:

Design Communications

ARTS 2313 or ARTC 1317
ARTS 2314 or ARTC 2347
ARTC 1321 IMED 2315

Digital Media and Animation

ARTV 1303 ARTV 1345 ARTV 2301 ARTV 1341

Photo and Video

ARTS 2356 PHTC 2301 ARTS 2357 ARTV 2341

Art and Design (3ART-DSN)

Associate of Applied Science Degree

South Campus

The Associate of Applied Science degree is for students who want to earn a two-year degree while preparing for jobs in the design industry. Offered elective tracts will enable students to further specialize in one of three areas: design communications, digital media and animation, and photo and video. Students are strongly encouraged to complete all four courses from a single elective tract to complete their degree.

First Term	Credit
PHTC 1311 Fundamentals of Photography.....	3
ARTS 1301 Art Appreciation.....	3
Approved Elective.....	3
IMED 1301 Introduction to Digital Media.....	3
ARTS 2348 Digital Art I or ARTC 1325 Introduction to Computer Graphics.....	3
Subtotal	15

Second Term	Credit
ARTV 1351 Digital Video.....	3
IMED 1316 Web Page Design I.....	3
Approved Elective.....	3
ARTC 2335 Portfolio Development for Graphic Design or ARTC 2366 Practicum (or Field Experience) - Commercial and Advertising Art.....	3
ARTS 2349 Digital Art II or ARTC 1302 Digital Imaging I.....	3
Subtotal	15

Third Term	Credit
ENGL 1301 Composition I.....	3
Approved Elective.....	3
Approved Elective.....	3
ARTS 1311 Design I.....	3
ARTS 1316 Drawing I.....	3
Subtotal	15

Fourth Term	Credit
ENGL 1302 Composition II.....	3
ARTS 1312 Design II.....	3
*Behavioral or Social Sciences Elective.....	3
ARTS 1317 Drawing II or ARTS 2323 Life Drawing I.....	3
**Math 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra.....	3
Subtotal	15

Associate of Applied Science Degree Total 60

Capstone Experience: The Capstone requirement will be fulfilled by a comprehensive exit exam, prepared and administered by the Art and Design technical program faculty.

Approved Electives for the AAS degree are grouped into specialty blocks. Faculty will counsel students to fill their four approved elective spots with the courses from a single specialty block below:

Design Communications

ARTS 2313 or ARTC 1317
ARTS 2314 or ARTC 2347
ARTC 1321
IMED 2315

Digital Media and Animation

ARTV 1303 ARTV 1345 ARTV 2301 ARTV 1341

Photo and Video

ARTS 2356 PHTC 2301 ARTS 2357 ARTV 2341

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

***College Preparatory courses (those courses which have numbers beginning with 0) do not apply toward the associate degree. Technical courses do not transfer to a senior institution. See an Art and Design Department Counselor for information.*

Automotive Collision Repair Technology

Automotive Collision Repair (4ABCR-CR)

Certificate of Technology

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	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 1449 Automotive Plastic Repair.....	4
ABDR 2380 . Cooperative Education - Autobody Collision and Repair Technology/Technician.....	3
ABDR 2502 Auto Body Mechanical and Electrical Service.....	5
Subtotal	12

Certificate of Technology Total 42

Capstone Experience: ABDR 2380

TECHNICAL PROGRAMS

Automotive Collision Repair Technology (3ABDR-CR)

Associate of Applied Science Degree North and South Campuses

First Term	Credit
ABDR 1519 Basic Metal Repair	5
ABDR 1307 Collision Repair Welding.....	3
ABDR 1431 Basic Refinishing	4
ABDR 1303 Vehicle Design and Structural Analysis.....	3
Physical Education	1
Subtotal	16

Second Term	Credit
ABDR 2541 Major Collision Repair and Panel Replacement .	5
ABDR 2353 Color Analysis and Paint Matching.....	3
ABDR 1315 Vehicle Interior Trim and Hardware.....	3
Physical Education	1
ABDR 1441 Structural Analysis and Damage Repair I	4
Subtotal	16

Third Term	Credit
ENGL 1301 Composition I.....	3
ABDR 1449 Automotive Plastic and Sheet Molding Compound Repair	4
SPCH 1321 Business and Professional Speech.....	3
*Behavioral or Social Science.....	3
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra.....	3
Subtotal	16

Fourth Term	Credit
ABDR 2380 . Cooperative Education - Autobody Collision and Repair Technology/Technician.....	3
ABDR 2502 Auto Body Mechanical and Electrical Service	5
ENGL 2311 Technical Report Writing.....	3
*Humanities or Fine Arts.....	3
Subtotal	14

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

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

Automotive Non-Collision Repair (4ABCR-NC)

Certificate of Technology

North and South Campuses

First Term	Credit
ABDR 1519 Basic Metal Repair	5
ABDR 1558 Intermediate Refinishing	5
ABDR 1431 Basic Refinishing	4

Subtotal **14**

Second Term

Second Term	Credit
ABDR 1555 Minor Metal Repair	5
ABDR 1303 Vehicle Design and Structural Analysis.....	3
ABDR 2549 Advanced Refinishing	5

Subtotal **13**

Certificate of Technology Total **27**

Capstone Experience: ABDR 2549

Automotive Painting Specialty (6ACRT-PNT)

Occupational Certificate

North and South Campuses

First Term	Credit
ABDR 1431 Basic Refinishing	4
ABDR 1558 Intermediate Refinishing	5
ABDR 2551 Specialized Refinishing Techniques	5
ABDR 2549 Advanced Refinishing	5

Subtotal **19**

Occupational Certificate Total **19**

Capstone Experience: ABDR 2551

Repair Assistant Specialty (6ACRT-AST)

Occupational Certificate

North and South Campuses

First Term	Credit
ABDR 1303 Vehicle Design and Structural	3
ABDR 1519 Basic Metal Repair	5
ABDR 1307 Collision Repair Welding.....	3
ABDR 2541 Major Collision Repair and Replace	5
ABDR 1315 Vehicle Interior Trim	3

Subtotal **19**

Occupational Certificate Total **19**

Capstone Experience: ABDR 2541

Automotive Collision Repair Technology Management Specialty (3ABCR-MGT)

Associate of Applied Science Degree 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
PHED Activity	1
Subtotal	16
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
PHED Activity	1
Subtotal	16
Third Term	Credit
ENGL 1301 Composition I.....	3
ABDR 1323 Front and Rear Wheel Alignment.....	3
ABDR 2255 Collision Repair Estimating.....	2
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra.....	3
*Behavioral or Social 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 Fine 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	

TECHNICAL PROGRAMS

Automotive Technology, Future Automotive Service Technicians (FAST) Program

Automotive Technology (6AUTO)

Occupational Certificate of Technology

Central Campus

The Automotive Technology Future Automotive Service Technicians (FAST) Program prepares individuals for employment as a General Service Automotive Technicians. San Jacinto College can provide the training you need. Today's automobiles are equipped with multiple computers and extensive electronics. Servicing vehicles equipped with active suspension, satellite guidance systems and computer controlled, multi-valve engines requires highly specialized training. Upon the completion of this curriculum, students should be prepared to take the Automotive Service Excellence (ASE) certification exams and be ready for full-time employment in the automotive service industry. Students interested in the Level I Certificate of Technology must meet with the FAST coordinator or department chair before registering for automotive classes.

First Term	Credit
AUMT 1253 Theory of Automotive Electrical Systems.....	2
AUMT 1307 Automotive Electrical Systems Lab.....	3
AUMT 2421 Automotive Electrical Diagnosis and Repair	4
Subtotal	9

Second Term	Credit
AUMT 2215 Theory of Automotive Engine Performance Analysis I.....	2
AUMT 2317 Automotive Engine Performance Analysis I Lab	3
AUMT 2231 Theory of Automotive Engine Performance Analysis II	2
AUMT 2334 Automotive Engine Performance Analysis II Lab	3
Subtotal	10

Occupational Certificate of Technology Total 19 Capstone Experience: Eligible for credentialing exams

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

Automotive Technology (5AUTO)

Level II Certificate of Technology

Central Campus

The Automotive Technology Future Automotive Service Technicians (FAST) Program prepares individuals for employment as Automotive Service Technicians. San Jacinto College can provide the training you need. Today's automobiles are equipped with multiple computers and extensive electronics. Servicing vehicles equipped with active suspension, satellite guidance systems and computer controlled, multi-valve engines requires highly specialized training. Upon the completion of this curriculum, students should be prepared to take the Automotive Service Excellence (ASE) Certification exams and be ready for full-time employment in the automotive service industry. Students interested in the Automotive Technology FAST Level II Certificate Program must meet with the FAST coordinator or department chair before registering for automotive classes.

First Term	Credit
AUMT 1253 Theory of Automotive Electrical Systems.....	2
AUMT 1307 Automotive Electrical Systems Lab.....	3
AUMT 2421 Automotive Electrical Diagnosis and Repair	4
Subtotal	9

Second Term	Credit
AUMT 2215 Theory of Automotive Engine Performance Analysis I.....	2
AUMT 2317 Automotive Engine Performance Analysis I Lab	3
AUMT 2231 Theory of Automotive Engine Performance Analysis II	2
AUMT 2334 Automotive Engine Performance Analysis II Lab	3
Subtotal	10

PostY1Summer	Credit
AUMT 2209 Theory of Automotive Drive Train and Axles.....	2
AUMT 2313 Automotive Drive Train and Axles Lab	3
AUMT 2223 Theory of Automotive Automatic Transmission and Transaxle.....	2
AUMT 2325 Automotive Automatic Transmission and Transaxle Lab	3
Subtotal	10

Third Term	Credit
AUMT 2205 Theory of Automotive Engine Repair.....	2
AUMT 1319 Automotive Engine Repair Lab	3
AUMT 1241 Theory of Automotive Climate Control Systems.....	2
AUMT 1345 Automotive Climate Control Systems Lab	3
Subtotal	10

TECHNICAL PROGRAMS

Fourth Term	Credit
AUMT 1257 Theory of Automotive Brake Systems.....	2
AUMT 1310 Automotive Brake Systems Lab	3
AUMT 1213 Theory of Automotive Suspension and Steering Systems.....	2
AUMT 1316 Automotive Suspension and Steering Systems Lab	3
Subtotal	10

Level II Certificate of Technology Total 49
Capstone Experience: Eligible for credentialing exams

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

Automotive Technology (3AUTO)

Associate of Applied Science Degree Central Campus

The Automotive Technology Future Automotive Service Technicians (FAST) Program prepares individuals for employment as entry level Automotive Service Technicians. San Jacinto College can provide the training you need. Today's automobiles are equipped with multiple computers and extensive electronics. Servicing vehicles equipped with active suspension, satellite guidance systems and computer controlled, multi-valve engines requires highly specialized training. Upon the completion of this curriculum, students should be prepared to take the Automotive Service Excellence (ASE) Certification exams.

First Term	Credit
AUMT 1253 Theory of Automotive Electrical Systems.....	2
AUMT 1307 Automotive Electrical Lab	3
AUMT 2421 Automotive Electrical Systems	4
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra.....	3
Subtotal	12

Second Term	Credit
AUMT 2215 Theory of Automotive Engine Performance Analysis I.....	2
AUMT 2317 Automotive Engine Performance Analysis I Lab	3
AUMT 2231 Theory of Automotive Engine Performance Analysis II	2
AUMT 2334 Automotive Engine Performance Analysis II Lab	3
ENGL 1301 Composition I.....	3
Subtotal	13

PostY1Summer	Credit
AUMT 2209 Theory of Automotive Drive Train and Axles.....	2
AUMT 2313 Automotive Drive Train and Axles Lab	3
AUMT 2223 Theory of Automotive Automatic Transmission and Transaxle.....	2
AUMT 2325 Automotive Automatic Transmission and Transaxle Lab	3
Subtotal	10

Third Term	Credit
AUMT 2205 Theory of Automotive Engine Repair.....	2
AUMT 1319 Automotive Engine Repair Lab	3
AUMT 1241 Theory of Automotive Climate Control Systems.....	2
AUMT 1345 Automotive Climate Control Systems Lab	3
**Behavioral or Social Science.....	3
Speech.....	3
Subtotal	16

Fourth Term	Credit
AUMT 1257 Theory of Automotive Brake Systems.....	2
AUMT 1310 Automotive Brake Systems Lab	3
AUMT 1213 Theory of Automotive Suspension and Steering Systems.....	2
AUMT 1316 Automotive Suspension and Steering Systems Lab	3
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technicians.....	2
**Humanities and Fine Arts	3
Subtotal	15

Associate of Applied Science Degree Total 66
**Capstone Experience: AUMT 2288 Internship Automobile/
Automotive Mechanics Technology/Technician; Eligible
for credentialing exams**

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

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

TECHNICAL PROGRAMS

Chrysler College Automotive Program (CAP) (MAUTO-C)

Marketable Skills Achievement Award Central Campus

The Chrysler Marketable Skills Achievement Award (MSA) is part of a nationwide effort by Chrysler to produce the industry's best automotive technicians. San Jacinto College is a National Automotive Technicians Education Foundation (NATEF) accredited institution in partnership with Chrysler. The Chrysler MSA program offers the latest in instruction and hands-on experience. Chrysler provides the latest vehicles, components, and instructional materials for hands-on training. The Chrysler MSA Award will help students obtain an entry level general service technician position in a Chrysler, Ram or Jeep dealership. Students interested in the Chrysler MSA program are required to meet with the CAP coordinator or department chair before registering for automotive classes.

First Term	Credit
AUMT 1407 Automotive Electrical Systems	4
AUMT 1416 Automotive Suspension and Steering Systems	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
Subtotal	10
Marketable Skills Achievement Award Total	10
Capstone Experience: AUMT 2288 Internship Automobile/Automotive Mechanics Technology/Technician; Eligible for credentialing exams	

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

Chrysler College Automotive Program (CAP) (4AUTO-C)

Level I Certificate of Technology Central Campus

The College Automotive Program (CAP) is part of a nationwide effort by Chrysler to produce the industry's best automotive technicians. San Jacinto College is a National Automotive Technicians Education Foundation (NATEF) accredited institution in partnership with Chrysler. Chrysler provides the latest vehicles, high-tech diagnostic equipment for hands-on training. In addition to the college training, students will be required to intern at a participating Chrysler, Ram, or Jeep dealership. Not only will students learn about repair procedures for Chrysler vehicles, but they will also learn about dealership service operations. Students interested in the CAP program are required to meet with the CAP coordinator or department chair before registering for automotive classes.

First Term	Credit
AUMT 1407 Automotive Electrical Systems	4
AUMT 1416 Automotive Suspension and Steering Systems	4
AUMT 2288 Internship-Automobile/Automotive Mechanics/Technicians Technology	2
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra	3
Subtotal	13
Second Term	Credit
AUMT 2417 Automotive Engine Performance Analysis I	4
AUMT 2434 Automotive Engine Performance Analysis II	4
AUMT 2288 Internship-Internship-Automobile/Automotive Mechanics/Technicians Technology	2
Subtotal	10
PostY1Summer	Credit
AUMT 1410 Automotive Brake Systems	4
AUMT 2421 Automotive Electrical Diagnosis and Repair	4
Subtotal	8

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Level I Certificate of Technology Total 31
Capstone Experience: AUMT 2288 Internship Automobile/Automotive Mechanics Technology/Technician; Eligible for credentialing exam

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

Chrysler College Automotive Program (CAP) (3AUTO-C)

Associate of Applied Science Degree

Central Campus

Chrysler CAP streamlines the path to becoming a highly trained automotive technician in less than two years. In Chrysler CAP you will alternate between San Jacinto College, a Chrysler CAP College and hands-on work experience at your sponsoring dealership. Chrysler CAP instructors are Chrysler Group LLC. trained and in touch with the latest automotive trends. You will be learning from the best. Learn how to identify, analyze and solve complex automotive problems. Theory and practical application will come together as you spend time working on actual customer vehicles. Chrysler Group LLC. requires Chrysler CAP instructors to have the latest high tech training available. Chrysler CAP colleges are ready to provide the most current training available in the industry. As a Chrysler CAP student you will complete between 80-100 percent of the Chrysler training required to become a Chrysler, Jeep and Ram certified technician. The more you train, the more valuable you become as an employee. Chrysler Group LLC. donates new vehicles to its Chrysler CAP colleges. This ensures that you are training on the latest vehicle technology. If you are training on 10-year-old vehicles your training is already 10 years out of date. All Chrysler CAP Programs including San Jacinto College are accredited by the National Automotive Technicians Education Foundation (NATEF). This accreditation ensures that your training will meet or exceed industry standards. All Chrysler CAP instructors must be certified by the National Institute for Automotive Service Excellence (ASE) before they are allowed to teach in any Chrysler CAP classroom. You deserve to be trained by the best. Students interested in the Chrysler CAP program are required to meet with the CAP coordinator or department chair before registering for automotive classes.

First Term	Credit
AUMT 1407 Automotive Electrical Systems	4
AUMT 1416 Automotive Suspension and Steering Systems	4
AUMT 2288 Internship-Automobile/Automotive Mechanics/ Technicians Technology	2
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra.....	3
Subtotal	13

Second Term	Credit
AUMT 2417 Automotive Engine Performance Analysis I	4
AUMT 2434 Automotive Engine Performance Analysis II	4
AUMT 2288 Internship-Automobile/Automotive Mechanics/ Technicians Technology	2
ENGL 1301 Composition I.....	3
Subtotal	13

PostY1Summer	Credit
AUMT 1410 Automotive Brake Systems	4
AUMT 2421 Automotive Electrical Diagnosis and Repair	4
Speech.....	3
Subtotal	11

Third Term	Credit
AUMT 2288 Internship-Automobile/Automotive Mechanics/ Technicians Technology	2
AUMT 2413 Automotive Drive Train and Axles	4
AUMT 2425 Automotive Automatic Transmission and Transaxle	4
**Behavioral or Social Sciences.....	3
Subtotal	13

Fourth Term	Credit
AUMT 2288 Internship-Automobile/Automotive Mechanics/ Technicians Technology	2
AUMT 1419 Automotive Engine Repair	4
AUMT 1445 Automotive Climate Control Systems	4
**Humanities or Fine Arts.....	3
Subtotal	13

Associate of Applied Science Degree Total 63
**Capstone Experience: AUMT 2288 Internship Automobile/
 Automotive Mechanics Technology/Technician; Eligible for
 credentialing exams**

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

*** Courses which satisfy this requirement are listed in the Humanities and Fine Arts and Behavioral and Social Sciences section of the Transfer Core Curriculum.*

TECHNICAL PROGRAMS

Ford Automotive Student Educational Training (ASSET) Program (MAUTO-F)

Marketable Skills Achievement Award Central Campus

The Ford Marketable Skills Achievement Award prepares individuals for employment as general service technicians. San Jacinto College can provide the training you need. Upon the completion of this curriculum, students should be prepared to take the Automotive Service Excellence (ASE) Certification exams and be ready for full-time employment in the automotive maintenance and light repair service industry.

First Term	Credit
AUMT 1407 Automotive Electrical Systems	4
AUMT 2421 Automotive Electrical Diagnosis and Repair	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
Subtotal	10

Marketable Skills Achievement Award Total 10 Capstone Experience: AUMT 2288 Internship Automobile/ Automotive Mechanics Technology/Technician; Eligible for credentialing exams

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

Ford Automotive Student Service Educational Training (ASSET) (4AUTO-F)

Level I Certificate of Technology Central Campus

The Automotive Technology Ford Level I Program prepares individuals for entry-level employment as automotive service technicians. San Jacinto College can provide the training you need. Today's automobiles are equipped with multiple computers and extensive electronics. Servicing vehicles equipped with active suspension, satellite guidance systems and computer controlled, multi-valve engines requires highly specialized training. Upon the completion of this curriculum, students should be prepared to take the ASE (Automotive Service Excellence) Certification exams and be ready for full-time employment in the automotive service industry. Students interested in the Ford Level I Certificate Program must meet with the ASSET coordinator or department chair before registering for automotive classes.

Note - Students must furnish required hand tools and protective clothing, as well as textbooks. A list of these items can be obtained from the program coordinator or department chair by calling 281.998.6150 ext. 1865

First Term	Credit
AUMT 1407 Automotive Electrical Systems	4
AUMT 2421 Automotive Electrical Diagnosis and Repair	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra or higher.....	3
Subtotal	13

Second Term	Credit
AUMT 1416 Automotive Suspension and Steering Systems	4
AUMT 1410 Automotive Brake Systems	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
Subtotal	10

PostY1Summer	Credit
AUMT 1445 Automotive Climate Control Systems	4
AUMT 2417 Automotive Engine Performance Analysis I	4
Subtotal	8

Ford Level I Certificate of Technology Total 31 Capstone Experience: AUMT 2288 Internship-Automobile/ Automotive Mechanics Technology/Technician; Eligible for credentialing exam

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

Ford Automotive Student Educational Training (ASSET) Program (5AUTO-F)

Level II Certificate of Technology

Central Campus

The Ford ASSET Level II certificate prepares individuals for entry level employment as automotive service technicians. San Jacinto College can provide the training you need. Today's automobiles are equipped with multiple computers and extensive electronics. Servicing vehicles equipped with active suspension, satellite guidance systems and computer controlled, multi-valve engines requires highly specialized training. Upon the completion of this curriculum, students should be prepared to take the Automotive Service Excellence (ASE) Certification exams and be ready for full-time employment in the automotive service industry. Students interested in the Ford Level II Certificate Program must meet with the ASSET coordinator or department chair before registering for automotive classes.

First Term	Credit
AUMT 1407 Automotive Electrical Systems	4
AUMT 2421 Automotive Electrical Diagnosis and Repair	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra.....	3
Subtotal	13
Second Term	Credit
AUMT 1416 Automotive Suspension and Steering Systems	4
AUMT 1410 Automotive Brake Systems	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
Subtotal	10
PostY1Summer	Credit
AUMT 1445 Automotive Climate Control Systems	4
AUMT 2417 Automotive Engine Performance Analysis I	4
Subtotal	8
Third Term	Credit
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
AUMT 2434 Automotive Engine Performance Analysis II	4
AUMT 1419 Automotive Engine Repair	4
Subtotal	10
Fourth Term	Credit
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
AUMT 2413 Automotive Drive Train and Axles	4
AUMT 2425 Automotive Automatic Transmission and Transaxle	4
Subtotal	10
Level II Certificate of Technology Total	51
Capstone Experience: AUMT 2288 Internship Automobile/	

Automotive Mechanics Technology/Technician; Eligible for credentialing exams

**For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.*

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

Ford Automotive Student Educational Training (ASSET) Program (3AUTO-F)

Associate of Applied Science Degree

Central Campus

Ford ASSET Program streamlines the path to becoming a highly trained automotive technician to less than two years. In the Ford ASSET Program you will alternate between San Jacinto College, a Ford ASSET College and hands-on work experience at your sponsoring dealership. Ford ASSET instructors are Ford trained and in touch with the latest automotive trends. You will be learning from the best. Learn how to identify, analyze and solve complex automotive problems. Theory and practical application will come together as you spend time working on actual customer vehicles. Ford Motor Company requires Ford ASSET instructors to have the latest high tech training available. Ford ASSET colleges are ready to provide the most current training available in the industry. As a Ford ASSET student you will complete between 80-100 percent of the Ford training required to become a Ford certified technician. The more you train, the more valuable you become as an employee. Ford Motor Company donates new vehicles to its Ford ASSET colleges. This ensures that you are training on the latest vehicle technology. If you are training on 10-year-old vehicles your training is already 10 years out of date. All Ford ASSET Programs including San Jacinto College are accredited by the National Automotive Technicians Education Foundation (NATEF). This accreditation ensures that your training will meet or exceed industry standards. All Ford ASSET instructors must be certified by the National Institute for Automotive Service Excellence (ASE) before they are allowed to teach in any Ford ASSET classroom. Students interested in the Ford ASSET program are required to meet with the ASSET coordinator or department chair before registering for automotive classes.

TECHNICAL PROGRAMS

TECHNICAL PROGRAMS

First Term	Credit
AUMT 1407 Automotive Electrical Systems	4
AUMT 2421 Automotive Electrical Diagnosis and Repair	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra.....	3
Subtotal	13

Second Term	Credit
AUMT 1416 Automotive Suspension and Steering Systems	4
AUMT 1410 Automotive Brake Systems	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
ENGL 1301 Composition I.....	3
Subtotal	13

PostY1 Summer	Credit
AUMT 1445 Automotive Climate Control Systems	4
AUMT 2417 Automotive Engine Performance Analysis I	4
Speech.....	3
Subtotal	11

Third Term	Credit
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
AUMT 2434 Automotive Engine Performance Analysis II	4
AUMT 1419 Automotive Engine Repair	4
**Behavioral or Social Sciences.....	3
Subtotal	13

Fourth Term	Credit
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
AUMT 2413 Automotive Drive Train and Axles	4
AUMT 2425 Automotive Automatic Transmission and Transaxle	4
**Humanities or Fine Arts.....	3
Subtotal	13

Associate of Applied Science Degree Total 63
**Capstone Experience: AUMT 2288 Internship Automotive/
 Automotive Mechanics Technology/Technician; Eligible for
 credentialing exams**

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

*** Courses which satisfy this requirement are listed in the Humanities and Fine Arts and Behavioral and Social Sciences section of the Transfer Core Curriculum.*

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

Associate of Applied Science Degree

Central Campus

GM ASEP streamlines the path to becoming a highly trained automotive technician to less than two years. In GM ASEP you will alternate between San Jacinto College, a GM ASEP College and hands-on work experience at your sponsoring dealership. GM ASEP instructors are GM trained and in touch with the latest automotive trends. You will be learning from the best. Learn how to identify, analyze and solve complex automotive problems. Theory and practical application will come together as you spend time working on actual customer vehicles. General Motors requires GM ASEP instructors to have the latest high tech training available. GM ASEP colleges are ready to provide the most current training available in the industry. As a GM ASEP student you will complete between 80-100 percent of the GM training required to become a GM certified technician. The more you train, the more valuable you become as an employee. GM donates new vehicles to its GM ASEP colleges. This ensures that you are training on the latest vehicle technology. If you are training on 10-year-old vehicles your training is already 10 years out of date. All GM ASEP Programs including San Jacinto College are accredited by the National Automotive Technicians Education Foundation (NATEF). This accreditation ensures that your training will meet or exceed industry standards. All GM ASEP instructors must be certified by the National Institute for Automotive Service Excellence before they are allowed to teach in any GM ASEP classroom. In fact, many of these instructors have gone on to achieve GM World Class status, the highest achievement for a GM technician. You deserve to be trained by the best. Students interested in the GM ASEP program are required to meet with the ASEP coordinator or department chair before registering for automotive classes.

First Term	Credit
AUMT 1407 Automotive Electrical Systems	4
AUMT 2421 Automotive Electrical Diagnosis and Repair	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra.....	3
Subtotal	13

Second Term	Credit
AUMT 2417 Automotive Engine Performance Analysis I	4
AUMT 2434 Automotive Engine Performance Analysis II	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
ENGL 1301 Composition I.....	3
Subtotal	13

PostY1Summer	Credit
AUMT 1419 Automotive Engine Repair	4
AUMT 1445 Automotive Climate Control Systems	4
Speech.....	3
Subtotal	11

Third Term	Credit
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
AUMT 2413 Automotive Drive Train and Axles	4
AUMT 2425 Automotive Automatic Transmission and Transaxle	4
**Behavioral or Social Sciences.....	3
Subtotal	13

Fourth Term	Credit
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
AUMT 1410 Automotive Brake Systems	4
AUMT 1416 Automotive Suspension and Steering Systems	4
**Humanities or Fine Arts.....	3
Subtotal	13

Associate of Applied Science Degree Total 63
**Capstone Experience: AUMT 2288 Internship Automobile/
 Automotive Mechanics Technology/Technician; Eligible for
 credentialing exams**

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

*** Courses which satisfy this requirement are listed in the Humanities and Fine Arts and Behavioral and Social Sciences section of the Transfer Core Curriculum.*

Honda Professional Automotive Career Training (PACT) Program (4AUTO-H)

Level I Certificate of Technology Central Campus

The Honda PACT Level I certificate is designed to teach technical competence and professional level skills to incoming technicians. The curriculum has been co-designed by Honda and San Jacinto College. San Jacinto College can provide the training you need. The program requires the student to work at a Honda or Acura dealership as well as attend San Jacinto College classroom and laboratory classes, where the student will work on Honda and Acura donated training vehicles. Upon the completion of this curriculum, students should be prepared to take the Automotive

Service Excellence (ASE) Certification exams and be ready for full-time employment in the automotive service industry. San Jacinto College is accredited by the National Automotive Technicians Education Foundation (NATEF). This accreditation ensures that your training will meet or exceed industry standards. Students interested in the Honda Level I Certificate Program must meet with the PACT coordinator or department chair before registering for automotive classes.

First Term	Credit
AUMT 1407 Automotive Electrical Systems	4
AUMT 2421 Automotive Electrical Diagnosis and Repair	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
Subtotal	10

Second Term	Credit
AUMT 1410 Automotive Brake Systems	4
AUMT 1416 Automotive Suspension and Steering Systems	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
Subtotal	10

PostY1Summer	Credit
AUMT 2417 Automotive Engine Performance Analysis I	4
AUMT 2434 Automotive Engine Performance Analysis II	4
Subtotal	8

Level I Certificate of Technology Total 28
**Capstone Experience: AUMT 2288 Internship Automobile/
 Automotive Mechanics Technology/Technician; Eligible for
 credentialing exams**

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

TECHNICAL PROGRAMS

Honda Professional Automotive Career Training (PACT) Program (5AUTO-H)

Level II Certificate of Technology

Central Campus

The Honda PACT Level II certificate is designed to teach technical competence and professional level skills to incoming technicians. The curriculum has been co-designed by Honda and San Jacinto College. San Jacinto College can provide the training you need. The program requires the student to work at a Honda or Acura dealership as well as attend San Jacinto College classroom and laboratory classes, where the student will work on Honda and Acura donated training vehicles. Upon the completion of this curriculum, students should be prepared to take the Automotive Service Excellence (ASE) Certification exams and be ready for full-time employment in the automotive service industry. San Jacinto College is accredited by the National Automotive Technicians Education Foundation (NATEF). This accreditation ensures that your training will meet or exceed industry standards. Students interested in the Honda Level II Certificate Program must meet with the PACT coordinator or department chair before registering for automotive classes.

First Term	Credit
AUMT 1407 Automotive Electrical Systems	4
AUMT 2421 Automotive Electrical Diagnosis and Repair	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
Subtotal	10
Second Term	Credit
AUMT 1410 Automotive Brake Systems	4
AUMT 1416 Automotive Suspension and Steering Systems	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
Subtotal	10
PostY1Summer	Credit
AUMT 2417 Automotive Engine Performance Analysis I	4
AUMT 2434 Automotive Engine Performance Analysis II	4
Subtotal	8
Third Term	Credit
AUMT 2288 Internship Auto Technology.....	2
AUMT 2413 Automotive Drive Train and Axles	4
AUMT 2425 Automotive Automatic Transmission and Transaxle	4
Subtotal	10
Fourth Term	Credit
AUMT 2288 ...Internship-Automobile/Automotive Mechanics Technology/Technician.....	2
AUMT 1419 Automotive Engine Repair	4
AUMT 1445 Automotive Climate Control Systems	4
Subtotal	10

Level II Certificate of Technology Total **51**
Capstone Experience: AUMT 2288 Internship Automobile/Automotive Mechanics Technology/Technician; Eligible for credentialing exams

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

Honda Professional Automotive Career Training (PACT) Program (3AUTO-H)

Associate of Applied Science Degree

Central Campus

Honda PACT streamlines the path to becoming a highly trained automotive technician to less than two years. In Honda PACT you will alternate between San Jacinto College, a Honda PACT College and hands-on work experience at your sponsoring dealership. Honda PACT instructors are Honda trained and in touch with the latest automotive trends. You will be learning from the best. Learn how to identify, analyze and solve complex automotive problems. Theory and practical application will come together as you spend time working on actual customer vehicles. American Honda Motor Co. Inc. requires Honda PACT instructors to have the latest high tech training available. Honda PACT colleges are ready to provide the most current training available in the industry. As a Honda PACT student you will complete between 80-100 percent of the Honda training required to become a Honda certified technician. The more you train, the more valuable you become as an employee. American Honda Motor Co. Inc. donates new vehicles to its Honda PACT colleges. This ensures that you are training on the latest vehicle technology. If you are training on 10-year-old vehicles your training is already 10 years out of date. All Honda PACT Programs including San Jacinto College are accredited by the National Automotive Technicians Education Foundation (NATEF). This accreditation ensures that your training will meet or exceed industry standards. All Honda PACT instructors must be certified by the National Institute for Automotive Service Excellence (ASE) before they are allowed to teach in any Honda PACT classroom. You deserve to be trained by the best. Students interested in the Honda PACT program are required to meet with the PACT coordinator or department chair before registering for automotive classes.

TECHNICAL PROGRAMS

First Term	Credit
AUMT 1407 Automotive Electrical Systems	4
AUMT 2421 Automotive Electrical Diagnosis and Repair	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician	2
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra	3
Subtotal	13
Second Term	Credit
AUMT 1410 Automotive Brake Systems	4
AUMT 1416 Automotive Suspension and Steering Systems	4
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician	2
ENGL 1301 Composition I.....	3
Subtotal	13
PostY1Summer	Credit
AUMT 2417 Automotive Engine Performance Analysis I	4
AUMT 2434 Automotive Engine Performance Analysis II	4
Speech.....	3
Subtotal	11
Third Term	Credit
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician	2
AUMT 2413 Automotive Drive Train and Axles	4
AUMT 2425 Automotive Automatic Transmission and Transaxle	4
**Behavioral or Social Sciences.....	3
Subtotal	13
Fourth Term	Credit
AUMT 2288 Internship-Automobile/Automotive Mechanics Technology/Technician	2
AUMT 1419 Automotive Engine Repair	4
AUMT 1445 Automotive Climate Control Systems	4
**Humanities or Fine Arts.....	3
Subtotal	13
Associate of Applied Science Degree Total	63

Capstone Experience: AUMT 2288 Internship Automotive/Automotive Mechanics Technology/Technician; Eligible for credentialing exams

†For automotive technology degree/certificate programs, NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

*** Courses which satisfy this requirement are listed in the Humanities and Fine Arts and Behavioral and Social Sciences section of the Transfer Core Curriculum.*

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	Credit
AUMT 1305 Intro to Automotive Technology	3
AUMT 1407 Automotive Electrical Systems	4
AUMT 1419 Automotive Engine Repair	4
Subtotal	11
Second Term	Credit
AUMT 2311 Automotive Electronic Controls.....	3
AUMT 2321 Auto Elect Diagnosis & Repair	3
Subtotal	6
PostY1Summer	Credit
AUMT 1316 Suspension and Steering Lab	3
AUMT 1345 Auto Climate Control Sys Lab	3
Subtotal	6
Third Term	Credit
AUMT 2425 Auto Trans and Transaxles	4
AUMT 1310 Automotive Brake Systems Lab	3
Subtotal	7
Fourth Term	Credit
AUMT 2313 Manual Dr Train and Axles Lab	3
AUMT 2417 Auto Engine Perform Analysis I	4
AUMT 2388 Internship Automotive.....	3
Subtotal	10
Certificate of Technology Total	40
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.

†For automotive technology degree/certificate programs,

NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

TECHNICAL PROGRAMS

TECHNICAL PROGRAMS

Toyota Technician Training & Education Network Program (3AUTO-T-TEN)

Associate of Applied Science Degree

Central Campus

Toyota T-TEN streamlines the path to becoming a highly trained automotive technician to less than two years. In Toyota T-TEN you will alternate between San Jacinto College, a Toyota T-TEN College and hands-on work experience at your sponsoring dealership. Toyota T-TEN instructors are Toyota trained and in touch with the latest automotive trends. You will be learning from the best. Learn how to identify, analyze and solve complex automotive problems. Theory and practical application will come together as you spend time working on actual customer vehicles. Toyota Motor Sales, U.S.A., Inc. requires Toyota T-TEN instructors to have the latest high tech training available. Toyota T-TEN colleges are ready to provide the most current training available in the industry. The more you train, the more valuable you become as an employee. Toyota Motor Sales, U.S.A., Inc. donates new vehicles to its Toyota T-TEN colleges. This ensures that you are training on the latest vehicle technology. If you are training on 10-year-old vehicles your training is already 10 years out of date. All Toyota T-TEN Programs including San Jacinto College are accredited by the National Automotive Technicians Education Foundation (NATEF). This accreditation ensures that your training will meet or exceed industry standards. All Toyota T-TEN instructors must be certified by the National Institute for Automotive Service Excellence (ASE) before they are allowed to teach in any Toyota T-TEN classroom. You deserve to be trained by the best. Students interested in the Toyota T-TEN program are required to meet with the T-TEN coordinator or department chair before registering for automotive classes.

First Term	Credit
AUMT 1305 Introduction to Automotive Technology.....	3
AUMT 1407 Automotive Electrical Systems	4
AUMT 1419 Automotive Engine Repair	4
*Math 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra.....	3
PHED Activity	1
Subtotal	15
Second Term	Credit
AUMT 2311 Automotive Electronic Controls.....	3
AUMT 2321 Automotive Electrical Diagnosis and Repair	3
ENGL 1301 Composition I.....	3
Speech.....	3
ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications	3
Subtotal	15
PostY1Summer	Credit
AUMT 1316 Automotive Suspension and Steering.....	3
AUMT 1345 Automotive Climate Control Systems.....	3
Subtotal	6
Third Term	Credit

AUMT 2388 Internship Automotive.....	3
AUMT 2417 Automotive Engine Performance Analysis I	4
AUMT 1310 Automotive Brake Systems Lab	3
**Behavioral or Social Sciences.....	3
**Humanities or Fine Arts.....	3
Subtotal	16

Fourth Term Credit

AUMT 2313 Automotive Drive Train and Axles.....	3
AUMT 2425 Automotive Transmission and Transaxle	4
AUMT 2434 Automotive Engine Performance Analysis II	4
AUMT 2388 Internship Automotive.....	3
PHED Activity	1
Subtotal	15

Associate of Applied Science Degree Total 67 Capstone Experience: AUMT 2388 Internship Automobile/ Automotive Mechanics Technology/Technician; Eligible for credentialing exams

†For automotive technology degree/certificate programs,

NOTE: Applicants must meet the admission requirements for SJC and achieve minimum scores on assessments for mechanical comprehension and reading.

All new students are required to attend automotive orientation.

Department-specific courses must be taken in sequence and may have a prerequisite course.

Exceptions must be approved in writing by the department chair.

Students are required to furnish their own tools. (See a program instructor, program coordinator or the department chair for required tool list).

*** Courses which satisfy this requirement are listed in the Humanities and Fine Arts and Behavioral and Social Services section of the Transfer Core Curriculum.*

Biomedical Equipment Technology

South Campus

The biomedical clinical equipment technician curriculum is designed to provide basic training for students to enter and/or advance in the occupations associated with medical equipment maintenance and repair. A biomedical equipment technician must possess the skills necessary to repair and replace parts on medical equipment, test and calibrate equipment, perform and record preventative maintenance, procure and track inventory, and facilitate training sessions on the equipment. A graduate in this program will gain the theoretical knowledge needed to understand the equipment as well as the practical (hands-on) skills to operate and repair the equipment. Employment of medical equipment repairers is projected to grow 31 percent from 2010 to 2020, much faster than the average for all occupations. Greater demand for healthcare services and the use of increasingly complex medical equipment will drive this employment growth. Those who have an associate degree in biomedical equipment technology should have the best job opportunities. Biomedical repair technicians are most commonly employed by hospitals or clinics, private companies and the military. Biomedical repair technicians must be able

to interact with health care professionals, administrators, patients, and vendors to perform their jobs. Although some medical equipment repairers are trained to fix a variety of equipment, others specialize in repairing one or a small number of machines. For less complicated equipment, such as electric hospital beds, workers make repairs as needed. You can become a certified biomedical equipment technician (CBET) through the Association for the Advancement of Medical Instrumentation (AAMI) by sitting for the exam administered by the International Certification Commission (ICC). Additional credentials are also offered by the AAMI. Eligibility requirements vary depending on your level of education and work experience. Once you have completed an associate degree in biomedical equipment technology and gained two years of work experience in the field, you are eligible for certification.

As with most technology, advances in medical equipment are constantly evolving. Because of this, you are required to complete continuing education activities in order to keep your skills and equipment knowledge up to date.

The student that begins the program in the occupational certificate will start to build a foundation for developing an understanding in medical equipment, computer, and electronics operation and repair. The next two certificates (Certificate of Technology and the Level 2 Certificate) build upon these foundation classes with more specialized biomedical equipment classes to provide the student with more theoretical and practical industry expertise and the chance for an internship. All of these certificates are stackable and lead directly to the Associate of Applied Science. Some students with previous biomedical equipment repair experience can enter the workplace with the certificates, while students with no previous experience are directed to completing the associate degree.

Biomedical Clinical Equipment Technician (6BIOMD-CET)

Occupational Certificate

South Campus

First Term	Credit
BIOM 1309 Applied Biomedical Equipment Technology.....	3
CETT 1409 DC-AC Circuits	4
ITSC 1325 Personal Computer Hardware.....	3
BIOM 1315 Medical Equipment Networks	3
ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications	3
Subtotal	16

Occupational Certificate Total **16**

Capstone Experience: BIOM 1315

Biomedical Clinical Equipment Technician (4BIOMD-CET)

Certificate of Technology

South Campus

First Term	Credit
BIOM 1309 Applied Biomedical Equipment Technology.....	3
CETT 1409 DC-AC Circuits	4
ITSC 1325 Personal Computer Hardware.....	3
BIOM 1315 Medical Equipment Networks	3
ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications	3
Subtotal	16

Second Term Credit

BIOM 1341 Medical Circuits Troubleshooting.....	3
BIOM 1350 Diagnostic Ultrasound Imaging System	3
BIOM 1355 Medical Electronic Application.....	3
BIOM 2311 General Medical Equipment I.....	3
BIOM 2301 Safety in Health Care Facility	3
Subtotal	15

PostY1Summer Credit

BIOM 2389 Internship-Biomedical Technology/Technician....	3
Subtotal	3

Certificate of Technology Total 34

Capstone Experience: BIOM 2389

Biomedical Clinical Equipment Technician(5BIOMD-CET)

Level II Certificate

South Campus

First Term	Credit
BIOM 1309 Applied Biomedical Equipment Technology.....	3
CETT 1409 DC-AC Circuits	4
ITSC 1325 Personal Computer Hardware.....	3
BIOM 1315 Medical Equipment Networks	3
ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications	3
Subtotal	16

Second Term Credit

BIOM 1341 Medical Circuits Troubleshooting.....	3
BIOM 1350 Diagnostic Ultrasound Imaging System	3
BIOM 1355 Medical Electronic Application.....	3
BIOM 2311 General Medical Equipment I.....	3
BIOM 2301 Safety in Health Care Facility	3
BIOM 2389 Internship-Biomedical Technology/Technician....	3
Subtotal	18

TECHNICAL PROGRAMS

Third Term	Credit
BIOM 2319 Fundamentals of X-Ray and Medical Imaging Systems.....	3
BIOM 2315 Physiological Instruments I.....	3
BIOM 2343 General Medical Equipment II	3
ENGL 1301 Composition I.....	3
Subtotal	12
Level II Certificate Total	46
Capstone Experience: BIOM 2343	

Biomedical Clinical Equipment Technician (3BIOMD-CET)

Associate of Applied Science Degree

South Campus

First Term	Credit
BIOM 1309 Applied Biomedical Equipment Technology.....	3
CETT 1409 DC-AC Circuits	4
ITSC 1325 Personal Computer Hardware.....	3
BIOM 1315 Medical Equipment Networks	3
ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications	3
Subtotal	16

Second Term	Credit
BIOM 1341 Medical Circuits Troubleshooting.....	3
BIOM 1350 Diagnostic Ultrasound Imaging System	3
BIOM 1355 Medical Electronic Application.....	3
BIOM 2311 General Medical Equipment I.....	3
BIOM 2301 Safety in Health Care Facility.....	3
Subtotal	15

PostY1 Summer	Credit
BIOM 2389 Internship-Biomedical Technology/Technician....	3
Subtotal	3

Third Term	Credit
BIOM 2319 Fundamentals of X-Ray and Medical Imaging Systems.....	3
BIOM 2315 Physiological Instruments I.....	3
BIOM 2343 General Medical Equipment II	3
ENGL 1301 Composition I.....	3
PSYC 1300 Learning Framework.....	3
Subtotal	15

Fourth Term	Credit
*Language, Philosophy, and Culture or Creative Arts.....	3
ENGL 2311 Technical Report Writing.....	3
SPCH 1318 Interpersonal Communications	3
*Mathematics or Life and Physical Sciences.....	3
Subtotal	12

Associate of Applied Science Total 61

Capstone Experience: BIOM 2343

* Courses which satisfy this requirement are listed in the Language, Philosophy, and Culture; Creative Arts; Mathematics; and Life and Physical Sciences sections of the Transfer Core Curriculum.

Business Management

All Campuses

Business management is a two-year supervisory training program that combines classroom management theory with practical on-the-job training. The program leads to the Associate of Applied Science in Business Management. The business management curriculum includes courses designed to provide a practical, comprehensive program covering certain managerial activities. The program is designed to meet the needs of people preparing for careers in business and industry such as retailing, wholesaling, industrial management, small business, and human resources. The business management program supports the theory that there is no substitute for world-of-work experience in the learning process. Management course work includes studies in basic principles of management, human relations, group dynamics, motivation of individuals and groups, leadership development, organization of work and people, study of supervisory functions, and many other management interests, including international business and trade.

A Contemporary Approach to Management Training

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

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

TECHNICAL PROGRAMS

Management Specialty (6BMGT-MGMT)

Occupational Certificate

All Campuses

First Term	Credit
BMGT 1301 Supervision.....	3
BMGT 1327 Principles of Management.....	3
BMGT 2309 Leadership or BMGT 1313 Principles of Purchasing	3
HRPO 1311 Human Relations.....	3
HRPO 2301 Human Resources Management.....	3

Subtotal **15**

Occupational Certificate Total **15**

Capstone Experience: HRPO 2301

Management Specialty (4BMGT-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.

First Term	Credit
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 **Credit**

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

Subtotal **15**

Certificate of Technology Total **30**

Capstone Experience: BMGT 2368

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	Credit
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 **Credit**

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 **Credit**

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**

Fourth Term **Credit**

Economics or Psychology or Sociology.....	3
ENGL 2311 Technical Report Writing or ENGL 1302 English Composition II	3
ACCT 2301 Accounting Principles I or ACNT 1303 Introduction to Accounting I.....	3
MATH 1314 College Algebra or MATH 1333 Contemporary Mathematics for Technical Programs.....	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 Fine Arts section of the Transfer Core Curriculum.

TECHNICAL PROGRAMS

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	Credit
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	Credit
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
BUSI 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	

Small Business Entrepreneur Specialty (3BMGT-ENTR)

Associate of Applied Science Degree

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 baccalaureate degrees should see a counselor or the business department chair prior to registration.

First Term	Credit
ACCT 2301 Accounting Principles I or ACNT 1303 Introduction to Accounting I.....	3
BCIS 1305 Business Computer Applications.....	3
BUSI 2301 Business Law I.....	3
BUSG 2309 Small Business Management	3
BMGT 1301 Supervision.....	3
HRPO 1311 Human Relations.....	3
Subtotal	18
Second Term	Credit
ACCT 2302 Accounting Principles II or ACNT 1311 Introduction to Computerized Accounting ..	3
HRPO 2301 Human Resources Management.....	3
MRKG 1311 Principles of Marketing	3
MRKG 2333 Principles of Selling	3
BMGT 1341 Business Ethics	3
Subtotal	15
Third Term	Credit
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra	3
BMGT 2309 Leadership	3
ENGL 1301 Composition I.....	3
BMGT 2368 Practicum (or Field Experience) Business Administration and Management, General	3
Economics or Psychology or Sociology.....	3
PHED Activity.....	1
Subtotal	16
Fourth Term	Credit
ENGL 2311 Technical Report Writing or ENGL 1302 English Composition II	3
BUSI 2304 Business Communications.....	3
BMGT 2369 Practicum (or Field Experience) Business Administration and Management, General	3
SPCH 1315 Public Speaking or 1321 Business and Professional Speech	3
*Humanities or Fine Arts.....	3
PHED Activity.....	1
Subtotal	16
Associate of Applied Science Degree Total	65
Capstone Experience: BMGT 2369	

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

Management (MBMGT-MGMT)

Marketable Skills Achievement Award

All Campuses

First Term	Credit
BMGT 1301 Supervision.....	3
BMGT 1327 Principles of Management.....	3
BMGT 1313 Principles of Purchasing or BMGT 2309 Leadership.....	3
HRPO 1311 Human Relations.....	3
Subtotal	12

Marketable Skills Achievement Award Total 12

Foundations of Marketing Specialty (6BMGT-MRKG)

Occupational Certificate

All Campuses

First Term	Credit
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
Subtotal	15

Occupational Certificate Total 15

Capstone Experience: MRKG 2312

Business Office Technology

Executive Administrative Assistant (6BOFT-E)

Occupational Certificate

All Campuses

The Executive Administrative Assistant Occupational Certificate is designed to provide students with entry-level office skills which include analyzing, classifying, and recording business transactions in a manual and computerized environment. Students who do not have keyboarding proficiency are encouraged to enroll in POFT 1329. All courses in this certificate also apply toward the certificate of technology, level 2 certificate, and the associate of applied science degree in the business office technology program. After successfully completing the following courses, contact the office of Enrollment Services to apply to receive this occupational certificate.

First Term	Credit
ACNT 1303 Introduction to Accounting I.....	3
BCIS 1305 Business Computer Applications.....	3
BMGT 1341 Business Ethics.....	3
BUSI 1304 Business Report Writing and Correspondence.....	3
POFT 1319 Records and Information Management I.....	3
Subtotal	15

Occupational Certificate Total 15

Capstone Experience: POFT 1319

Executive Administrative Assistant (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 level 2 certificate and associate of applied science degree in the business office technology program. After successfully completing the following courses, contact the office of Enrollment Services to apply to receive this certificate of technology.

First Term	Credit
ACNT 1303 Introduction to Accounting I.....	3
BCIS 1305 Business Computer Applications.....	3
BMGT 1341 Business Ethics.....	3
BUSI 1304 Business Report Writing and Correspondence.....	3
POFT 1319 Records and Information Management I.....	3
Subtotal	15

Second Term	Credit
ACNT 1304 Introduction to Accounting II.....	3
POFI 1341 Computer Applications II.....	3
POFT 1325 Business Math Using Technology.....	3
POFT 1328 Business Presentations.....	3
POFT 2301 Intermediate Keyboarding.....	3
Subtotal	15

Certificate of Technology Total 30

Capstone Experience: POFI 2301

Executive Administrative Assistant (5BOFT-E)

Level 2 Certificate

All Campuses

These courses are required for the Executive Administrative Level 2 Certificate and also qualify as the first three terms of the associate of applied science degree in the business office technology program. After successfully completing the following courses, contact the office of Enrollment Services to apply to receive this Level 2 Certificate.

First Term	Credit
ACNT 1303 Introduction to Accounting I.....	3
BCIS 1305 Business Computer Applications.....	3
BMGT 1341 Business Ethics.....	3
BUSI 1304 Business Report Writing and Correspondence.....	3
POFT 1319 Records and Information Management I.....	3
Subtotal	15

Second Term	Credit
ACNT 1304 Introduction to Accounting II.....	3
POFI 1341 Computer Applications II.....	3
POFT 1325 Business Math Using Technology.....	3
POFT 1328 Business Presentations.....	3
POFT 2301 Intermediate Keyboarding.....	3
Subtotal	15

TECHNICAL PROGRAMS

Third Term	Credit
BUSI 1301 Introduction to Business	3
BUSI 2304 Business Communications.....	3
HRPO 1311 Human Relations.....	3
BMGT 1309 Information and Project Management.....	3
POFT 2364 Practicum (or Field Experience) - Administrative Assistant and Secretarial Science, General	3
Subtotal	15
Level 2 Certificate Total	45
Capstone Experience: POFT 2364	
Executive Administrative Assistant (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 in current and future office environments. Students desiring baccalaureate degrees should see a counselor or the business office technology department chair prior to registration.

Keyboarding proficiency is recommended for this degree as well as all the certificates in the business office technology program. Students who do not have keyboarding proficiency are encouraged to enroll in POFT 1329. After successfully completing the following courses, contact the office of Enrollment Services to apply to receive this associate of applied science degree.

First Term	Credit
ACNT 1303 Introduction to Accounting I	3
BCIS 1305 Business Computer Applications.....	3
BMGT 1341 Business Ethics	3
BUSI 1304 Business Report Writing and Correspondence	3
POFT 1319 Records and Information Management I.....	3
Subtotal	15
Second Term	
	Credit
ACNT 1304 Introduction to Accounting II	3
POFI 1341 Computer Applications II	3
POFT 1325 Business Math Using Technology	3
POFT 1328 Business Presentations	3
POFT 2301 Intermediate Keyboarding	3
Subtotal	15
Third Term	
	Credit
BUSI 1301 Introduction to Business	3
BUSI 2304 Business Communications.....	3
HRPO 1311 Human Relations.....	3
BMGT 1309 Information and Project Management.....	3
POFT 2364 Practicum.....	3
Subtotal	15

Fourth Term	Credit
ENGL 1301 Composition I.....	3
Psychology or Sociology.....	3
SPCH 1315 Public Speaking or SPCH 1318 Interpersonal Communications or SPCH 1321 Business & Professional Speech	3
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra	3
*Humanities or Fine Arts.....	3
Subtotal	15
Associate of Applied Science Degree Total	60
Capstone Experience: POFT 2364	

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

Medical Office Support (EBOTM)

Enhanced Skills Certificate All Campuses

The Enhanced Skills Certificate in Medical Office Support is designed for students who have completed the Executive Administrative Assistant Associate of Applied Science Degree. This certificate is intended to prepare students for entry-level positions in medical office administrative/billing positions. After successfully completing the following courses, contact the office of Enrollment Services to apply to receive this enhanced skills certificate.

Fifth Term	Credit
HPRS 1106 Essentials of Medical Terminology	1
HPRS 1271 Medical Terminology.....	2
MRMT 1307 Medical Transcription I.....	3
POFM 1327 Medical Insurance or MDCA 1343 Medical Insurance.....	3
POFM 1317 Medical Administrative Support.....	3
Subtotal	12
Enhanced Skills Certificate Total	12
Capstone Experience: POFM 1317	

Office Assistant (MBOTOA)

Marketable Skills Achievement Award

All Campuses

The Office Assistant Marketable Skills Achievement Award is designed to provide students with entry-level office skills and to be a foundation for completing a higher-level certificate or degree. Students who do not have keyboarding proficiency are encouraged to enroll in POFT 1329.

All courses in this award also apply toward the occupational certificate, certificates of technology, and the associate of applied science degree in the business office technology program. After successfully completing the following courses, contact the office of Enrollment Services to apply to receive this certificate.

First Term	Credit
BCIS 1305 Business Computer Applications.....	3
BMGT 1341 Business Ethics	3
BUSI 1304 Business Report Writing and Correspondence	3
POFT 1319 Records and Information Management I.....	3
Subtotal	12
Marketable Skill Achievement Award Total	12

Chemical Technology

See Process Technology

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 baccalaureate degrees 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 degrees 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 (4CHID-ECE)

Certificate of Technology

Central and North Campuses

First Term	Credit
TECA 1354 Child Growth and Development or CDEC 1354 Child Growth and Development.....	3
CDEC 1319 Child Guidance.....	3
TECA 1311 Educating Young Children or CDEC 1311 Educating Young Children.....	3
CDEC 1413 Curriculum Resources for Early Childhood Programs	4
<u>CDEC 1356 Emergent Literacy for Early Childhood</u>	<u>3</u>
Subtotal	16
Second Term	Credit
TECA 1318 Wellness of the Young Child or CDEC 1318 Wellness of the Young Child.....	3
CDEC 2407 Math and Science for Early Childhood	4
CDEC 1458 Creative Arts for Early Childhood	4
CDEC 2326 Administration of Programs for Children I or CDEC 2328 Administration of Programs for Children II ...	3
Subtotal	14
Third Term	Credit
TECA 1303 Family, School and Community or CDEC 1303 Family, School and Community.....	3
CDEC 1323 Observation and Assessment	3
CDEC 1359 Children with Special Needs or Approved Elective3	3
CDEC 2366 Practicum (or Field Experience)-Child Care Provider/Assistant.....	3
Subtotal	12
Certificate of Technology Total	42
Capstone Experience: CDEC 2366	

Approved Electives

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

TECHNICAL PROGRAMS

Child Development/Early Childhood Education (3CHID-ECE)

Associate of Applied Science Degree Central and North Campuses

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 Sept. 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	Credit
TECA 1354 Child Growth and Development or CDEC 1354 Child Growth and Development.....	3
CDEC 1319 Child Guidance.....	3
CDEC 1458 Creative Arts for Early Childhood	4
ENGL 1301 Composition I.....	3
CDEC 1359 Children with Special Needs	3
Subtotal	16

Second Term	Credit
CDEC 1356 Emergent Literacy for Early Childhood	3
TECA 1311 Educating Young Children or CDEC 1311 Educating Young Children.....	3
CDEC 1413 Curriculum Resources for Early Childhood Program	4
*Humanities or Fine Arts.....	3
CDEC 1323 Observation and Assessment	3
PHED Activity.....	1
Subtotal	17

Third Term	Credit
CDEC 2407 Math and Science for Early Child	4
TECA 1303 Family, School and Community or CDEC 1303 Family, School and Community.....	3
SPCH 1315 Public Speaking or SPCH 1318 Interpersonal Communication.....	3
MATH 1314 College Algebra or MATH 1332 College Mathematics for Liberal Arts or MATH 1333 Contemporary Mathematics for Technical Programs.....	3
CDEC 2326 Administration of Programs for Children I.....	3
Subtotal	16

Fourth Term	Credit
TECA 1318 Wellness of the Young Child or CDEC 1318 Wellness of the Young Child.....	3
CDEC 2328 Administration Programs for Children II.....	3
CDEC 2366 Practicum (or Field Experience) Child Care Provider/Assistant.....	3
CDEC 2315 Diverse Cultural/Multilingual Education or Approved Elective	3
*Behavioral or Social Sciences.....	3
PHED Activity.....	1
Subtotal	16

Associate of Applied Science Degree Total **65**

Capstone Experience: CDEC 2366

**Courses which satisfy this requirement are listed in the Humanities and Fine 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 Life Specialist Specialty (4CHID-CLS)

Central and North Campuses

Child Life Specialist Specialized Certificate of Technology is designed to provide educational training for persons interested in working with children in health care settings. Upon completion of this certificate students would be qualified to be a child life specialist assistant.

First Term	Credit
CDEC 1319 Child Guidance.....	3
TECA 1354 Child Growth and Development.....	3
TECA 1318 Wellness of the Young Child.....	3
CDEC 1359 Children with Special Needs	3
CDEC 2341 The School Age Child.....	3
Subtotal	15
Second Term	Credit
CDEC 2315 Diverse Cultural/Multilingual Education	3
HPRS 1106 Essentials-Medical Terminology	1
TECA 1303 Family, School and Community.....	3
CDEC 1321 Infant and Toddler.....	3
TECA 1311 Educating Young Children.....	3
CDEC 2471 The Hospitalized Child	4
Subtotal	17
Certificate of Technology Total	32
Capstone Experience: CDEC 2471	

Teacher Aide (4CHID-TA)

Certificate of Technology

Central and North Campuses

First Term	Credit
TECA 1354 Child Growth and Development or CDEC 1354 Child Growth and Development.....	3
CDEC 1319 Child Guidance.....	3
TECA 1311 Educating Young Children or CDEC 1311 Educating Young Children.....	3
CDEC 1359 Children with Special Needs	3
CDEC 2341 The School Age Child.....	3
Subtotal	15
Second Term	Credit
SPCH 1315 Public Speaking or SPCH 1318 Interpersonal Communication.....	3
TECA 1318 Wellness of the Young Child or CDEC 1318 Wellness of the Young Child.....	3
TECA 1303 Family, School and Community or CDEC 1303 Family, School and Community.....	3
CDEC 1323 Observation and Assessment	3
EDUC 1301 Introduction to the Teaching Profession.....	3
Subtotal	15
Certificate of Technology Total	30
Capstone Experience: CDEC 1323	

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	Credit
TECA 1354 Child Growth and Development or CDEC 1354 Child Growth and Development.....	3
CDEC 1319 Child Guidance.....	3
Approved Elective or CDEC 1458 Creative Arts for Early Childhood.....	3
Subtotal	9
Second Term	Credit
CDEC 2326 Administrative Programs for Children I.....	3
CDEC 2328 Administrative Programs for Children II.....	3
CDEC 1359 Children with Special Needs	3
FMLD 1372 Dynamics Human Relationships	3
Subtotal	12
Occupational Certificate Total	21
Capstone Experience: CDEC 2328	

Approved Electives:

CDEC 1321	CDEC 1417	CDEC 2336
CDEC 2341	CDEC 2422	CDEC 2424
FMLD 1353		

TECHNICAL PROGRAMS

Associate Training for Directors (6CHID-DIR)

Occupational Certificate

Central and North Campuses

The child development associate training for directors occupational certificate program has been designed to provide educational training for persons interested in teaching young children and/or directing childcare centers. The certificate requires completion of 18 semester credit hours. Upon successful completion of the courses and upon receiving the Child Development Associate National Credential (CDA) from the Council of Early Childhood Recognition in Washington, D.C., the student meets director qualifications as set forth in the Texas Department of Protective and Regulatory Services MINIMUM STANDARDS and GUIDELINES.

First Term	Credit
CDEC 1417 Child Development Associate Training I	4
CDEC 2422 Child Development Associate Training II	4
CDEC 2424 Child Development Associate Training III	4
CDEC 2326 Administrative Programs for Children I.....	3
CDEC 2328 Administrative Programs for Children II.....	3
Subtotal	18

Occupational Certificate Total **18**

Capstone Experience: CDEC 2328

Curriculum Specialist (MCHID-CUR)

Marketable Skills Achievement Award

Central and North Campuses

For students who have completed the administrator's credential program, San Jacinto 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	Credit
CDEC 2341 The School Age Child.....	3
CDEC 1356 Emergent Literacy for Early Childhood	3
TECA 1311 Educating Young Children or CDEC 1311 Educating Young Children.....	3
CDEC 1413 Curriculum Resources for Early Childhood Programs	4
Subtotal	13

Marketable Skills Achievement Award Total **13**

Child Development Associate Training (MCHID)

Marketable Skills Achievement Award

Central and North Campuses

This award is designed to prepare childcare personnel for the Child Development Associate National Credential (CDA). The curriculum follows six competency areas established by the Council for Early Childhood Recognition. After completing three courses, an award is available by making application to the office of Enrollment Services.

First Term	Credit
CDEC 1417 Child Development Associate Training I	4
CDEC 2422 Child Development Associate Training II	4
CDEC 2424 Child Development Associate Training III	4
Subtotal	12

Marketable Skills Achievement Award Total **12**

Capstone Experience: CDEC 2424

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	Credit
FMLD 1353 Marriage and Family Issues	3
CDEC 1321 Infant and Toddler.....	3
TECA 1303 Family, School, and Community or CDEC 1303 Family, School and Community.....	3
CDEC 1359 Children with Special Needs	3
Subtotal	12

Marketable Skills Achievement Award Total **12**

Commercial Art

See Arts and Design

Computer-Aided Drafting

See Engineering Design Graphics

Computer Information Systems

All Campuses

The Computer Information Technology program is designed primarily for students seeking an occupational certificate, certificate of technology or associate of applied science (A.A.S.) degree. It is recommended that students complete the appropriate 18-19 credit hour core computer information technology (IT) occupational certificate before continuing into a certificate of technology or associate of applied science degree. The classes in the core IT occupational certificate will apply towards most of the other IT certificates and A.A.S. degrees.

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	Credit
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
Subtotal	18
Occupational Certificate Total	18
Capstone Experience: ITSW 1307	

Computer Information Technology Fundamentals (6IT-FNDLS)

Occupational Certificate

All Campuses

First Term	Credit
ITSC 1305 Introduction to PC Operating Systems.....	3
ITSC 1309 Integrated Software Applications I.....	3
ITSC 1325 Personal Computer Hardware.....	3
ITSE 1329 Programming Logic and Design.....	3
ITCC 1401 Cisco Exploration 1 - Network Fundamentals	4
Subtotal	16
Occupational Certificate Total	16
Capstone Experience: ITSC 1325	

TECHNICAL PROGRAMS

Applications Programming (4IT-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	Credit
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 - Network Fundamentals	3
ITSE 1329 Programming Logic & Dsgn or COSC 1336 Prog Fundamentals 1	3
Subtotal	12
Second Term	Credit
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	Credit
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 1319	ITSC 1325
ITSC 1391	ITSC 2321	ITSC 2337	ITSE 1345
ITSE 1391	ITSW 2334	ITSY 1342	

Applications Programming Specialty (3IT-APPL)

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.

First Term	Credit
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 Fundamentals3 ITSE 1329 Prog Logic & Dsgn or COSC 1336 Programming Fundamentals I	3
ITSE 1331 Introduction to Visual BASIC Programming	3
Subtotal	15
Second Term	Credit
ITSC 1319 Internet/Web Page Development	3
ITSE 1307 Introduction to C++ Programming or COSC 1337 Programming Fundamentals II	3
ITSW 1307 Introduction to Database	3
ENGL 1301 Composition I.....	3
Speech.....	3
Subtotal	15
Third Term	Credit
ITSE 2331 Advanced C++ Programming or COSC 2336 Programming Fundamentals III	3
Approved Elective	3
MATH 1333 Contemporary Math for Tech or MATH 1314 College Algebra or **Science Elective.....	3
*Humanities or Fine Arts.....	3
ENGL 2311 Technical Report Writing.....	3
Subtotal	15
Fourth Term	Credit
*Behavioral or Social Sciences.....	3
ITSC 1325 Personal Computer Hardware.....	3
Approved Elective	3
ITSE 2317 JAVA Programming.....	3
ITSC 2364 Practicum (or Field Experience) - Computer and Information Sciences, General or Approved Elective	3
Subtotal	15
Associate of Applied Science Degree Total	60
Capstone Experience: ITSC 2364 or ITSE 2331 or COSC 2336	

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

Approved Electives

IMED 1341	IMED 1345	ITCC 1404	ITNW 1392
ITNW 2352	ITNW 2354	ITSC 1307	ITSC 1321
ITSC 1391	ITSC 2321	ITSC 2337 I	TSE 1345
ITSE 1391	ITSW 2334	ITSY 1342	

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.*

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.

Web Applications Development (4IT-WBDV)

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	Credit
ITSC 1305 Introduction to PC Operating Systems.....	3
ITSC 1309 Integrated Software Applications I	3
ITSC 1319 Internet/Web Page Development	3
ITNW 1325 Fundamentals of Networking Tech or ITCC 1401 Cisco Exploration I Network Fundamentals	3
Subtotal	12
<hr/>	
Second Term	Credit
ITSE 1356 Extensible Markup Language (XML)	3
IMED 1341 Interface Design w/ Photoshop.....	3
ITSW 1307 Introduction to Database	3
Subtotal	9
<hr/>	
Third Term	Credit
ITSE 2313 Web Authoring.....	3
IMED 1345 Interactive Digital Media I.....	3
ITSE 1359 Introduction to Scripting Languages.....	3
ITSC 2364 Practicum (or Field Experience) - Computer and Information Sciences, General or Approved Elective	3
Subtotal	12
Certificate of Technology Total	33
Capstone Experience: ITSC 2364 or ITSE 2313	

Approved Electives

COSC 1337	ITCC 1404	ITNW 1392	ITNW 2354
ITSC 1325	ITSC 1391	ITSC 2321	ITSE 1307
ITSE 1329	ITSE 1331	ITSE 1345	ITSE 1391
ITSE 2317	ITSE 2331	ITSW 2334	ITSW 2337
ITSY 1342			

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	Credit
ITSC 1305 Introduction to PC Operating Systems.....	3
ITSC 1309 Integrated Software Applications I	3
ITSC 1319 Internet/Web Page Development	3
ITNW 1325 Fundamentals of Network Technology or ITCC 1401 Cisco Exploration 1 Network Fundamentals...	3
Speech.....	3
Subtotal	15
<hr/>	
Second Term	Credit
IMED 1341 Interface Design	3
ITSE 1356 Extensible Markup Language(XML)	3
ITSW 1307 Introduction to Database	3
ENGL 1301 Composition I.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or **Science Elective.....	3
Subtotal	15
<hr/>	
Third Term	Credit
IMED 1345 Interactive Digital Media I.....	3
ITSE 1359 Introduction to Scripting Languages.....	3
Approved Elective.....	3
*Behavioral or Social Sciences.....	3
ENGL 2311 Technical Report Writing.....	3
Subtotal	15
<hr/>	
Fourth Term	Credit
ITSE 2313 Web Authoring.....	3
ITSE 1345 Introduction to Oracle SQL or Approved Elective.....	3
*Humanities or Fine Arts.....	3
ITNW 2354 Internet/Intranet Server	3
ITSC 2364 Practicum (or Field Experience) - Computer and Information Sciences, General or Approved Elective	3
Subtotal	15
Associate of Applied Science Degree Total	60
Capstone Experience: ITSC 2364 or ITSE 2313	

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

TECHNICAL PROGRAMS

Approved Electives

COSC 1337	ITCC 1404	ITNW 1392	ITSC 1325
ITSC 2321 I	TSE 1307	ITSE 1329	ITSE 1331
ITSE 1391	ITSW 2334	ITSW 2337	ITSY 1342

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	Credit
ITSC 1319 Internet/Web Page Development	3
IMED 1341 Interface Design or ARTC 1302 Digital Imaging I	3
IMED 1301 Introduction to Digital Media.....	3
ARTC 1325 Introduction to Computer Graphics	3
Subtotal	12
Second Term	Credit
ITSE 1359 Introduction to Scripting Languages.....	3
IMED 1316 Web Design I.....	3
ARTV 1303 Basic Animation or ARTV 1351 Digital Video.....	3
Subtotal	9
Third Term	Credit
ITSE 2313 Web Authoring.....	3
IMED 1345 Interactive Digital Media I.....	3
ITSE 1356 Extensible Markup Language (XML)	3
IMED 2315 Web Page Design II.....	3
Subtotal	12
Certificate of Technology Total	33
Capstone Experience: ITSE 2313	

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+ and Network+. 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), Network+, 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 (4IT-DSMN)

Certificate of Technology

All Campuses

First Term	Credit
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 - Network Fundamentals	3
ITSE 1329 Programming Logic and Design or ITSE 1331 Introduction to Visual Basic Programming.....	3
Subtotal	12
Second Term	Credit
ITSC 1325 Personal Computer Hardware.....	3
ITNW 1354 Implementing & Supporting Servers	3
ITSC 2339 Personal Computer Help Desk.....	3
ITSW 1307 Introduction to Database.....	3
Subtotal	12
Third Term	Credit
ITNW 2354 Internet/Intranet Server	3
ITSY 1342 Information Technology Security.....	3
ITSC 1321 Intermediate PC Operating Systems	3
ITSC 2364 Practicum (or Field Experience) - Computer and Information Sciences, General or Approved Elective	3
Subtotal	12
Certificate of Technology Total	36
Capstone Experience: ITSC 2364 or ITNW 2354	

TECHNICAL PROGRAMS

Approved Electives

CPMT 2302	EECT 1307	EECT 2337	IMED 1341
IMED 1345	ITCC 1308	ITCC 1404	ITNW 1392
ITSC 1307	ITSC 1319	ITSC 1391	ITSC 2321
ITSE 1307	ITSE 1345	ITSE 1391	ITSW 2334
ITSY 2300			

Desktop Support and Microsoft Network Administration Specialty (3IT-DSMN)

Associate of Applied Science Degree

All Campuses

First Term

Credit

ITSC 1305 Introduction to PC Operating Systems.....	3
ITSC 1309 Integrated Software Applications I	3
ITSC 1325 Personal Computer Hardware.....	3
ITNW 1325 - Fundamentals of Networking Technologies or ITCC 1401 Cisco Exploration 1 - Network Fundamentals	3
Speech.....	3

Subtotal **15**

Second Term

Credit

ITSC 1321 Intermediate PC Operating Systems	3
ITSE 1329 Programming Logic and Design or ITSE 1331 Introduction to Visual Basic Programming.....	3
ITNW 1354 Implementing and Supporting Servers	3
MATH 1333 College Mathematics for Technical Programs or MATH 1314 College Algebra or **Science Elective.....	3
ENGL 1301 Composition I.....	3

Subtotal **15**

Third Term

Credit

ITSC 1307 UNIX Operating System I or Approved Elective.....	3
ITSW 1307 Introduction to Database	3
ITSY 1342 Information Technology Security.....	3
ITSC 2339 Personal Computer Help Desk Support	3
ENGL 2311 Technical Report Writing.....	3

Subtotal **15**

Fourth Term

Credit

ITSY 2300 Operating System Security.....	3
ITNW 2354 Internet/Intranet Server	3
*Behavioral or Social Science.....	3
*Humanities or Fine Arts.....	3
ITSC 2364 Practicum (or Field Experience) Computer and Information Sciences, General or Approved Elective	3

Subtotal **15**

Associate of Applied Science Degree Total **60**

Capstone Experience: ITSC 2364 or ITNW 2354

** Courses which satisfy this requirement are listed in the Humanities and Fine 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	ITSW 2337		

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

First Term

Credit

ITSC 1305 Introduction to PC Operating Systems.....	3
ITSC 1309 Integrated Software Applications I	3
ITCC 1401 Cisco Exploration 1 - Network Fundamentals	4
ITSC 1325 Personal Computer Hardware.....	3

Subtotal **13**

Second Term

Credit

ITCC 1404 Cisco Exploration 2 - Routing Protocols and Concepts	4
ITSC 1321 Intermediate PC Operating Systems	3
ITNW 1354 Implementing and Supporting Servers	3
ITSW 1307 Introduction to Database.....	3

Subtotal **13**

Third Term

Credit

ITCC 2408 Cisco Exploration 3 - LAN Switching and Wireless	4
ITCC 2410 Cisco Exploration 4 - Accessing the WAN	4
Approved Elective.....	3

Subtotal **11**

Certificate of Technology Total **37**

Capstone Experience: ITCC 2410

TECHNICAL PROGRAMS

TECHNICAL PROGRAMS

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

First Term

Credit

ITSC 1305 Introduction to PC Operating Systems.....	3
ITSC 1309 Integrated Software Applications I	3
ITSC 1325 Personal Computer Hardware.....	3
ITCC 1401 Cisco Exploration 1 - Network Fundamentals	4
Subtotal	13

Second Term

Credit

ITCC 1404 Cisco Exploration 2 - Routing Protocols and Concepts	4
ITSC 1321 Intermediate PC Operating Systems	3
ITSE 1329 Programming Logic and Design or ITSE 1331 Introduction to Visual Basic Programming.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or **Science Elective	3
Speech.....	3
Subtotal	16

Third Term

Credit

ITCC 2408 Cisco Exploration 3 - LAN Switching and Wireless	4
ITSW 1307 Introduction to Database	3
ITNW 1354 Implementing and Supporting Servers	3
*Behavioral or Social Science.....	3
ENGL 1301 Composition I.....	3
Subtotal	16

Fourth Term

Credit

ITCC 2410 Cisco Exploration 4 - Accessing the WAN	4
ITSY 1342 Information Technology Security.....	3
ENGL 2311 Technical Report Writing.....	3
*Humanities or Fine Arts.....	3
ITSC 2364 Practicum (or Field Experience) or Approved Elective	3
Subtotal	16

Associate of Applied Science Degree Total 61

Capstone Experience: ITSC 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 Fine Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.*

Approved Electives:

CPMT 2302	ITNW 1392	ITSC 2337
EECT 1307	ITSC 1307	ITSE 1307
EECT 2337	ITSC 1319	ITSE 1331
ITCC 1308	ITSC 1321	ITSE 1345
ITNW 1345	ITSC 1391	ITSE 1391
INTW 1353	ITSC 2321	ITSW 2334

Science Elective for General Education Core:

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

Information Technology Security

All Campuses

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

Information Technology Security (4IT-ITS)

Certificate of Technology

All Campuses

First Term

Credit

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 - Network Fundamentals	3
ITSY 1342 Information Technology Security.....	3
Subtotal	12

Second Term

Credit

ITNW 1354 Implementing and Supporting Servers	3
ITSC 1307 UNIX Operating System I	3
ITSE 1329 Programming Logic and Design or ITSE 1331 Introduction to Visual Basic Programming.....	3
ITSY 2300 Operating System Security.....	3
Subtotal	12

Third Term

Credit

ITSY 2301 Firewalls and Network Security	3
ITSY 2341 Security Management Practices.....	3
Approved Elective.....	3
Subtotal	9

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
ITSW 2334			

Information Technology Security (3IT-ITS)

Associate of Applied Science Degree

All Campuses

First Term	Credit
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 - Network Fundamentals	3
ITSY 1342 Information Technology Security.....	3
ENGL 1301 Composition I.....	3
Subtotal	15

Second Term	Credit
ITSC 1307 UNIX Operating System I	3
ITSE 1329 Programming Logic and Design or ITSE 1331 Introduction to Visual Basic Programming.....	3
ITSW 1307 Introduction to Database	3
ITSY 2300 Operating System Security.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or **Science Elective.....	3
Subtotal	15

Third Term	Credit
ITNW 1354 Implementing and Supporting Servers	3
ITSY 2301 Firewalls and Network Security	3
ITSY 2341 Security Management Practices.....	3
*Humanities or Fine Arts.....	3
Speech.....	3
Subtotal	15

Fourth Term	Credit
ITSY 2342 Incident Response and Handling.....	3
ITSY 2343 Computer System Forensics	3
ITSY 2359 Security Assessment and Auditing.....	3
ENGL 2311 Technical Report Writing.....	3
*Behavioral or Social Science.....	3
Subtotal	15

Associate of Applied Science Degree Total **60**
Capstone Experience: ITSY 2359

** Courses which satisfy this requirement are listed in the Humanities and Fine 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.*

Science Elective for General Education Core:

BIOL 1408 BIOL 1409 BIOL 1411 BIOL 1413

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.

Database Design (4IT-DBD)

Certificate of Technology

All Campuses

First Term	Credit
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 - 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	Credit
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	Credit
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

TECHNICAL PROGRAMS

Emerging Networking Technologies

Emerging Network Technologies (AIT-EMRGN)

Advanced Technical Certificate

All Campuses

Students must complete at least one of the following AAS degrees prior to enrolling in this certificate: Desktop Support and Microsoft Network Administration Specialty (3IT-DSMN), Network Administration CISCO Specialty (3IT-NW-C), and Information Technology Security (3IT-ITS).

First Term	Credit
EECT 2337 Wireless Telephony Systems.....	3
ITNW 1353 Supporting Network Server Infrastructure.....	3
Approved Elective.....	3
ITSC 1321 Intermediate PC Operating Systems.....	3
Approved Elective.....	3
Subtotal	15

Second Term	Credit
ITCC 1308 Introduction to Voice over Internet Protocol (VoIP).....	3
ITNW 1345 Implementing Network Directory Services.....	3
ITSY 2301 Firewalls and Network Security.....	3
ITSC 2364 Practicum (or field Experience)-Computer and Information Sciences, General or Approved Elective.....	3
Approved Elective.....	3
Subtotal	15

Advanced Technical Certificate Total 30
Capstone Experience: ITNW 1345

Approved electives for the certificate are grouped into specialty blocks. Faculty will counsel students to fill their two approved elective spots with the courses from a single specialty block below:

Emerging Network Technologies:

CPMT 2302 and EECT 1307
 ITSC 1391 and ITSC 2337

Cisco Networking:

ITCC 1404 and ITCC 2408
 ITCC 2410 and ITNW 1392

Desktop and Networking:

ITNW 2352 and ITNW 2354
 ITSC 2339 and ITSE 1345

Info Tech Security:

ITSY 2341 and ITSY 2342
 ITSY 2343 and ITSY 2359

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.

Simulation and Game Design (4IT-GAMS)

Certificate of Technology

All Campuses

First Term	Credit
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
COSC 1337 Programming Fundamentals II or ITSE 1307 Introduction to C++ Programming.....	3
Approved Elective.....	3
Subtotal	15

Second Term	Credit
INEW 2340 Object Oriented Design - Game Design.....	3
COSC 2336 Programming Fundamentals III or ITSE 2331 Advanced C++ Programming.....	3
GAME 2341 Game Scripting.....	3
GAME 1353 Multi-User Game Programming I.....	3
ITSC 1319 Internet/Web Page Development.....	3
Subtotal	15

Third Term	Credit
GAME 1343 Game and Simulation Programming I.....	3
GAME 2332 Project Development I.....	3
IMED 1345 Interactive Digital Media I.....	3
Approved Elective.....	3
Subtotal	12

Certificate of Technology Total 42

Capstone Experience: GAME 2332

Approved Electives:

GAME 2344	GAME 2359	IMED 1341	ITSE 1331
ITSE 1356	ITSE 1359	ITSE 2317	ITSE 2345
MATH 1314			

Advanced Simulation and Game Design (5IT-GAMS)

Level 2 Certificate

All Campuses

First Term	Credit		
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		
COSC 1377 Programming Fundamentals II or ITSE 1307 Introduction to C++ Programming.....	3		
Approved Elective	3		
Subtotal	15		
Second Term			
INEW 2340 Object Oriented Design	3		
COSC 2336 Programming Fundamentals III or ITSE 2331 Advanced C++ Programming	3		
GAME 2341 Game Scripting	3		
GAME 1353 Multi-User Game Programming I	3		
ITSC 1319 Internet/Web Page Development	3		
Subtotal	15		
Third Term			
GAME 1343 Game and Simulation Programming I.....	3		
GAME 2332 Project Development I	3		
IMED 1345 Interactive Digital media I	3		
Approved Elective	3		
Subtotal	12		
Fourth Term			
ITSE 2345 Data Structure	3		
GAME 2359 Game and Simulation Group Project.....	3		
Subtotal	6		
Level 2 Certificate Total	48		
Capstone Experience: GAME 2359			
Approved Electives:			
GAME 2344	IMED 1341	ITSE 1331	ITSE 1356
ITSE 1359	ITSE 2317	ITSE 2345	MATH 1414

Introductory Game Design and Development (6IT-GAME)

Occupational Certificate

All Campuses

First Term	Credit		
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

Computer Information Technology Industry Certification Program

All Campuses

The CIT industry certification program is intended for students with industry experience in one or more for 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.

TECHNICAL PROGRAMS

Beginning Network Administration CISCO Specialty (6IT-BC)

Occupational Certificate

All Campuses

First Term	Credit
ITCC 1401 Cisco Exploration 1 - Network Fundamentals	4
ITCC 1404 Cisco Exploration 2 - Routing Protocols and Concepts	4
ITCC 2408 Cisco Exploration 3 - LAN Switching and Wireless	4
ITCC 2410 Cisco Exploration 4 - Accessing the WAN	4
Subtotal	16

Occupational Certificate Total 16
Capstone Experience: ITCC 2410

Advanced Information Technology Security (6IT-AITS)

Occupational Certificate

All Campuses

First Term	Credit
ITSY 2300 Operating System Security.....	3
ITSY 2301 Firewalls and Network Security	3
ITSY 2341 Security Management Practices.....	3
Subtotal	9

Second Term	Credit
ITSY 2342 Incident Response and Handling.....	3
ITSY 2343 Computer System Forensics	3
ITSY 2359 Security Assessment and Auditing.....	3
Subtotal	9

Occupational Certificate Total 18
Capstone Experience: ITSY 2359

Computer Hardware Support (6IT-CHS)

Occupational Certificate

All Campuses

First Term	Credit
ITSC 1305 Introduction to PC Operating Systems.....	3
ITSC 1309 Integrated Software Applications I	3
ITSC 1325 Personal Computer Hardware.....	3
ITNW 1325 Fundamentals of Networking Technologies or ITCC 1401 Cisco Exploration 1 - Network Fundamentals	3
ITSC 1321 Intermediate PC Operating Systems	3
Subtotal	15

Occupational Certificate Total 15
Capstone Experience: ITSC 1321

Advanced Networking (5IT-ANW)

Level 2 Certificate

All Campuses

First Term	Credit
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 - Network Fundamentals	3
ITSE 1329 Programming Logic and Design or ITSE 1331 Introduction to Visual Basic Programming.....	3
ITSY 1342 Information Technology Security.....	3
Subtotal	15

Second Term	Credit
ITSC 1325 Personal Computer Hardware.....	3
ITNW 1354 Implementing and Supporting Servers	3
ITSC 2339 Personal Computer Help Desk Support	3
ITSW 1307 Introduction to Database	3
ITSY 2300 Operating System Security.....	3
Subtotal	15

Third Term	Credit
ITNW 2354 Internet/Intranet Server	3
ITSC 1321 Intermediate PC Operating Systems	3
ITSC 2364 Praticum (or Field Experience) - Computer and Information Sciences, General or Approved Elective	3
ITSY 2301 Firewalls and Network Security	3
Subtotal	12

Fourth Term	Credit
EECT 2337 Wireless Telephony Systems.....	3
ITCC 1308 Introduction to Voice over Internet protocol (VoIP).....	3
ITNW 1345 Implementing Network Directory Services	3
ITNW 1353 Supporting Network Server Infrastructure	3
Approved Elective.....	3
Subtotal	15

Level 2 Certificate Total 57

Capstone Experience: ITSC 2364 or ITNW 1345

Approved Electives for the certificate are grouped into specialty blocks. Faculty will counsel students to fill their two approved elective spots with the courses from a single specialty block below:

Emerging Network Technologies:

EECT 1307 and CPMT 2302

CISCO Networking:

ITCC 1404 and ITCC 2408

Desktop and Networking:

ITSC 1307 and ITSE 1345

Info Tech Security (1):

ITSY 2341 and ITSY 2343

Info Tech Security (2):

ITSY 2342 and ITSY 2359

Construction Management

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 construction projects, pricing and procurement, scheduling and the overseeing of organization, estimating, scheduling, and the implementation of the projects. 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.

Construction Management (4CSTR-MGMT)

Certificate of Technology

North Campus

First Term	Credit
CNBT 1210 Basic Construction Safety	2
CNBT 1311 Construction Methods and Materials I	3
CNBT 2310 Commercial/Industrial Blueprint Reading.....	3
CNBT 2342 Construction Management I	3
Subtotal	11
Second Term	Credit
CNBT 2317 Green Building.....	3
CNBT 1446 Construction Estimating I	4
CNBT 2315 Construction Specifications and Contracts.....	3
CNBT 1442 Building Codes and Inspections	4
Subtotal	14
Third Term	Credit
CNBT 1171 Green Building II	1
CNBT 2435 Computer-Aided Construction Scheduling	4
CNBT 2440 Mechanical, Plumbing, and Electrical Systems in Construction II	4
CNBT 2366 Practicum (Field Experience)-Construction Engineering Technology or CNBT 2344 Construction Management II.....	3
Subtotal	12
Certificate of Technology Total	37
Capstone Experience: CNBT 2366 or CNBT 2344	

Construction Management Technology (3CSTR-MGMT)

Associate of Applied Science Degree

North Campus

Prerequisite	Credit
ITSC 1309 Applications I or BCIS 1305 Business Computer Applications	3
Subtotal	3
First Term	Credit
CNBT 1210 Basic Construction Safety	2
CNBT 1311 Construction Methods and Materials I	3
CNBT 2310 Commercial/Industrial Blueprint Reading.....	3
CNBT 2342 Construction Management I	3
Math 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra.....	3
Subtotal	14
Second Term	Credit
CNBT 2317 Green Building.....	3
CNBT 2315 Construction Specifications and Contracts.....	3
CNBT 1446 Construction Estimating I	4
ENGL 1301 Composition I.....	3
Subtotal	13
Third Term	Credit
CNBT 2435 Computer-Aided Construction Scheduling	4
CNBT 2440 Mechanical, Plumbing and Electrical Systems in Construction II	4
CNBT 1171 Green Building II	1
CNBT 1442 Building Codes and Inspections	4
CNBT 2366 Practicum (Field Experience)-Construction Engineering Technology or CNBT 2344 Construction Management II.....	3
Subtotal	16
Fourth Term	Credit
Speech.....	3
*Behavioral/Social Science Elective.....	3
*Humanities/Fine Arts-Visual/Performing Arts	3
BMGT 1301 Supervision.....	3
ENGL 2311 Technical Report Writing.....	3
Subtotal	15
Associate of Applied Science Degree Total	61
Capstone Experience: CNBT 2366 or CNBT 2344	

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

TECHNICAL PROGRAMS

Cosmetology

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 Regulation Examination for licensing and to gain entry-level employment in professional salons. Full-time students can earn the certificate of technology in one year. All key aspects of the cosmetology profession are addressed.

First Term	Credit
CSME 1310 Introduction to Haircutting Related Theory.....	3
CSME 1354 Artistry of Hair Design I.....	3
CSME 1501 Orientation to Cosmetology or CSME 1505 Fundamentals of Cosmetology	5
CSME 1553 Chemical Reformation and Related Theory	5
Subtotal	16
Second Term	Credit
CSME 1248 Principles of Skin Care	2
CSME 2310 Advanced Haircutting and Related Theory	3
CSME 2501 Principles of Hair Coloring and Related Theory .	5
CSME 1355 Artistry of Hair Design II or CSME 2337 Advanced Cosmetology Techniques.....	3
CSME 2344 Preparation for State Licensing Written Exam.....	3
Subtotal	16
Third Term	Credit
CSME 2245 Preparation for the State Licensing Practical Exam	2
CSME 2343 Salon Development	3
CSME 2539 Advanced Hair Design	5
Subtotal	10
Certificate of Technology Total	42

Verification of Workplace Competencies: Eligible for the Credentialing Exam – Texas Department of Licensing and Regulation Cosmetology Operator License Examination.

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 Regulation Examination for licensing and for entry-level employment in professional salons. Emphasis is placed on using those skills and that knowledge in a simulated salon. All key aspects of the beauty profession are addressed.

First Term	Credit
CSME 1310 Introduction to Haircutting Related Theory.....	3
CSME 1354 Artistry of Hair Design I.....	3
CSME 1501 Orientation to Cosmetology or CSME 1505 Fundamentals of Cosmetology	5
CSME 1553 Chemical Reformation and Related Theory	5
Subtotal	16
Second Term	Credit
CSME 1248 Principles of Skin Care	2
CSME 1355 Artistry of Hair Design II.....	3
CSME 2310 Advanced Haircutting and Related Theory	3
CSME 2344 Preparation for the State Licensing Written Examination.....	3
CSME 2501 Principles of Hair Coloring and Related Theory .	5
Subtotal	16
PostY1Summer	Credit
CSME 2245 Preparation for the State Licensing Practical Examination.....	2
CSME 2343 Salon Development	3
CSME 2539 Advanced Hair Design	5
Subtotal	10
Third Term	Credit
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I.....	3
ENGL 1301 Composition I.....	3
Subtotal	6
Fourth Term	Credit
MATH 1333 Contemporary Mathematics for Technical Programs	3
Speech.....	3
*Humanities or Fine Arts.....	3
*Behavioral or Social Sciences.....	3
Subtotal	12
Associate of Applied Science Degree Total	60

Verification of Workplace Competencies; Eligible for the Credentialing Exam: Texas Department of Licensing and Regulation Operator Examination.

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

Cosmetology High School Operator Dual Credit (4COSM-OPHS)

Certificate of Technology

All Campuses

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

First Term	Credit
CSME 1310 Introduction to Haircutting Related Theory.....	3
CSME 1505 Fundamentals of Cosmetology	5
Subtotal	8
Second Term	Credit
CSME 1553 Chemical Reformation and Related Theory	5
CSME 1354 Artistry of Hair Design I	3
Subtotal	8
Third Term	Credit
CSME 1355 Artistry of Hair Design II.....	3
CSME 2501 Principles of Hair Coloring and Related Theory .	5
Subtotal	8
Fourth Term	Credit
CSME 2344 Preparation for the State Licensing Written Examination.....	3
CSME 2245 State Licensing Practical Examination.....	2
CSME 2310 Advanced Haircutting and Related Theory	3
Subtotal	8
Certificate of Technology Totals	32

Verification of Workplace Competencies: Eligible for the Credentialing Exam – Texas Department of Licensing and Regulation Cosmetology Operator License Examination.

Cosmetology Instructor (6COSM-INST)

Occupational Certificate South Campus

The cosmetology instructor occupational certificate program is the fast track to enter the world of education. The program will provide the student with the training necessary to provide innovative classroom management, curriculum development, and preparation for the Texas Department of Licensing and Regulation (TDLR) Cosmetology Instructor licensure exam.

Before registering for the cosmetology instructor courses listed below, the student must have a valid Texas Department of Licensing and Regulation Cosmetology Operator License and must provide evidence of a high school diploma or GED equivalent. Two years of cosmetology work experience or department chair approval.

First Term	Credit
CSME 1435 Orientation to the Instruction of Cosmetology .	4
CSME 1534 Cosmetology Instructor I	5
Subtotal	9
Second Term	Credit
CSME 2445 Instructional Theory and Clinic Operation	4
CSME 2544 Cosmetology Instructor IV	5
Subtotal	9
Occupational Certificate Total	18
Capstone Experience: CSME 2544	

Verification of Workplace Competencies: Eligible for the Credentialing Exam – Texas Department of Licensing and Regulation Cosmetology Instructor License Examination.

Cosmetology Instructor (4COSM-INST)

Certificate of Technology All Campuses

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

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

First Term	Credit
CSME 1435 Orientation to Cosmetology	4
CSME 1534 Cosmetology Instructor I	5
Subtotal	9
Second Term	Credit
CSME 2414 Cosmetology Instructor II	4
CSME 2515 Cosmetology Instructor III	5
Subtotal	9

TECHNICAL PROGRAMS

Third Term	Credit
CSME 2445 Instructional Theory and Clinic Operations	4
CSME 2544 Cosmetology Instructor IV	5
Subtotal	9

Certificate of Technology Totals 27

Verification of Workplace Competencies: Eligible for the Credentialing Exam – Texas Department of Licensing and Regulation Cosmetology Instructor License Examination.

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 Regulation License, and provide evidence of a high school diploma or GED equivalent. Two years work experience is preferred.

First Term	Credit
CSME 1435 Orientation to Cosmetology	4
CSME 1534 Cosmetology Instructor I	5
ENGL 1301 Composition I.....	3
Speech.....	3
BUSG 2309 Small Business Management.....	3
Subtotal	18

Second Term	Credit
CSME 2414 Cosmetology Instructor II	4
CSME 2515 Cosmetology Instructor III	5
HRPO 1311 Human Relations or Free Elective	3
ENGL 1302 Composition II or	
ENGL 2311 Technical Report Writing	3
Subtotal	15

Third Term	Credit
CSME 2445 Instructional Theory and Clinic Operation	4
CSME 2544 Cosmetology Instructor IV	5
BCIS 1305 Business Computer Applications or	
ITSC 1309 Integrated Software Applications I.....	3
Subtotal	12

Fourth Term	Credit
MATH 1333 Contemporary Mathematics or	
MATH 1314 College Algebra	3
*Behavioral or Social Sciences	3
Approved Elective	3
*Humanities or Fine Arts.....	3
Approved Elective.....	3
Subtotal	15

Associate of Applied Science Degree Total 60

Verification of Workplace Competencies: Eligible for the Credentialing Exam – Texas Department of Licensing and Regulation Cosmetology Instructor License Examination.

** Courses which satisfy this requirement are listed in the Humanities and Fine 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

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 Regulation Esthetician (Facial) License Examination, provided the 768-clock hour requirement has been met.

First Term	Credit
CSME 1520 Orientation to Facial Specialist	5
CSME 1421 Principles of Facial and Skin Care Technology I ..	4
CSME 1302 Applications of Facial and Skin	
Care Technology I.....	3
Subtotal	12

Second Term	Credit
CSME 1545 Principles of Facial and Skin Care	
Technology II	5
CSME 2431 Principles of Skin Care Technology III	4
CSME 2333 Applications of Facial and Skin Care	
Technology II	3
Subtotal	12

Certificate of Technology Total 24

Verification of Workplace Competencies: Eligible for the Credentialing Exam – Texas Department of Licensing and Regulation Cosmetology Esthetician License 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 Regulation 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
Subtotal	17

Occupational Certificate Totals **17**

Verification of Workplace Competencies: Eligible for the Credentialing Exam – Texas Department of Licensing and Regulation Manicurist License Examination

Eyelash Extension (MCOSM-ELE)

Marketable Skills Achievement Award

All Campuses

The eyelash extension course is designed to provide the student with the basic knowledge and skills to pass the Texas Department of Licensing and Regulation Eyelash Extension License Examination for licensing and for entry level employment in professional salons. Emphasis is placed on the application of all learning skills and knowledge in a simulated salon. All key aspects of safety procedures, application, and theory of eyelash extensions are addressed.

First Term	Credit
CSME 1376 Principles of Eyelash Extensions.....	3
CSME 1477 Applications of Eyelash Extensions	4
CSME 1575 Orientation to Eyelash Extensions	5
Subtotal	12

Marketable Skills Achievement Award Total **12**

Capstone Experience: CSME 1477

Verification of Workplace Competencies: Eligible for the Credentialing Exam – Texas Department of Licensing and Regulation Cosmetology Eyelash Extension License Examination.

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 License 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
Subtotal	9

Marketable Skills Achievement Award Total **9**

Capstone Experience: CSME 1457

Verification of workplace competencies: Eligible for the credentialing exam – Texas Department of Licensing and Regulation Cosmetology Hair Weaving and Braiding License Examination.

Criminal Justice

Associate of Arts Degree

University Transfer Plan

Central and North Campuses

Students who will pursue four-year degrees 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)

CRIJ 1301	CRIJ 1306	CRIJ 1310	CRIJ 2313
CRIJ 2328	Approved Electives (6 semester hours)		

Approved Electives

CRIJ 1307	CRIJ 1313	CRIJ 2314	CRIJ 2323
CRIJ 2301			

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

TECHNICAL PROGRAMS

Law Enforcement Option (4CRIJ-LE)

Certificate of Technology

Central and North Campuses

The criminal justice department at San Jacinto Community College District has voluntarily implemented the Peace Officer Training Articulation Advisory committee (POTAAC) agreement to articulate 18 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.

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

Second Term	Credit
CRIJ 2323 Legal Aspects of Law Enforcement or CJSA 2300 Legal Aspects of Law Enforcement	3
CJLE 1333 Traffic Law and Investigations	3
CJSA 1348 Ethics in Criminal Justice	3
CRIJ 1310 Fundamentals of Criminal Law or CJSA 1327 Fundamentals of Criminal Law	3
Approved Elective	3
Subtotal	15

Certificate of Technology Total **33**

Capstone Experience: CRIJ 2323/CJSA 2300

Approved Electives

CJSA 1308	CJSA 2364	CJSA 2388
CRIJ 1307/CJSA 1312		CRIJ 1313/CJSA 1317
CRIJ 2313/CJCR 1307		EMSP 1305

SPAN 1411

Law Enforcement Option (3CRIJ-LE)

Associate of Applied Science Degree

Central and North Campuses

First Term	Credit
CRIJ 1301 Introduction to Criminal Justice or CJSA 1322 Introduction to Criminal Justice	3
CRIJ 2313 Correctional Systems and Practices or CJCR 1307 Correctional Systems and Practices	3
CRIJ 2314 Criminal Investigation or CJSA 1342 Criminal Investigation	3
ENGL 1301 Composition I	3
Approved Elective	3
PHED Activity	1
Subtotal	16

Second Term	Credit
CRIJ 1307 Crime in America or CJSA 1312 Crime in America	3
Approved Elective	3
CJLE 1333 Traffic Law and Investigation	3
Speech	3
PSYC 2301 General Psychology	3
PHED Activity	1
Subtotal	16

Third Term	Credit
*Humanities or Fine Arts	3
CRIJ 1306 Court Systems and Practices or CJSA 1313 Court Systems and Practices	3
CRIJ 1310 Fundamentals of Criminal Law or CJSA 1327 Fundamentals of Criminal Law	3
SOCI 1301 Introduction to Sociology	3
ENGL 2311 Technical Report Writing	3
Subtotal	15

Fourth Term	Credit
CRIJ 2323 Legal Aspects of Law Enforcement or CJSA 2300 Legal Aspects of Law Enforcement	3
CRIJ 2328 Police Systems and Practices or CJSA 1359 Police Systems and Practices	3
Approved Elective	3
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I	3
MATH 1314 College Algebra or MATH 1333 Contemporary Mathematics for Technical Programs	3
Subtotal	15

Associate of Applied Science Degree Total **62**

Capstone Experience: CRIJ 2323/CJSA 2300

TECHNICAL PROGRAMS

Approved Electives

CJLE 1327	CJSA 1308	CJSA 1348
CJSA 1351	CJSA 2364	CJSA 2388
CRIJ 1313/CJSA 1317		EMSP 1305
PSYC 2319	SPAN 1411	

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

Core Criminal Justice (4CRIJ-CORE)

Certificate of Technology

Central and North Campuses

First Term	Credit
CRIJ 1301 Introduction to Criminal Justice	3
CRIJ 1306 Court Systems and Practices	3
CRIJ 1310 Fundamentals of Criminal Law	3
Approved elective	3
Approved elective	3
CRIJ 2313 Correctional Systems and Practices	3
CRIJ 2328 Police Systems and Practices	3

Subtotal **21**

Certificate of Technology Total **21**

Capstone Experience: CRIJ 2313 or CRIJ 2328

Approved Electives

CRIJ 1307	CRIJ 1313	CRIJ 2301	CRIJ 2314
CRIJ 2323			

Social Services Option (4CRIJ-SS)

Certificate of Technology

Central and North Campuses

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

Subtotal **18**

Second Term **Credit**

CRIJ 1307 Crime in America or CJSA 1312 Crime in America	3
CRIJ 1310 Fundamentals of Criminal Law or CJSA 1327 Fundamentals of Criminal Law	3
Approved Elective	3
CJCR 2325 Legal Aspects of Corrections	3
CJLE 1327 CJLE 1327 Interviewing and Report Writing for Criminal Justice Professions	3

Subtotal **15**

Certificate of Technology Total **33**

Capstone Experience: CJCR 2325

Approved Electives

CJCR 1304	CJSA 1348	CJSA 2364
CJSA 2388	CRIJ 2313/CJCR 1307	
EMSP 1305	PSYC 2319	SPAN 1411

TECHNICAL PROGRAMS

Social Services and Corrections Option (3CRIJ-SS)

Associate of Applied Science Degree

Central and North Campuses

First Term	Credit
CRIJ 1301 Introduction to Criminal Justice or CJSA 1322 Introduction to Criminal Justice	3
CJCR 1307 Correctional Systems and Practices or CRIJ 2313 Correctional Systems and Practices	3
CRIJ 2314 Criminal Investigation or CJSA 1342 Criminal Investigation	3
ENGL 1301 Composition I.....	3
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I.....	3
PHED Activity.....	1
Subtotal	16
Second Term	Credit
CRIJ 1307 Crime in America or CJSA 1312 Crime in America.....	3
CRIJ 2301 Community Resources in Corrections or CJCR 1304 Probation and Parole.....	3
CRIJ 1313 Juvenile Justice System or CJSA 1317 Juvenile Justice System	3
Speech.....	3
PSYC 2301 General Psychology.....	3
PHED Activity.....	1
Subtotal	16
Third Term	Credit
CRIJ 1306 Court Systems and Practices or CJSA 1313 Court Systems and Practices.....	3
CRIJ 1310 Fundamentals of Criminal Law or CJSA 1327 Fundamentals of Criminal Law	3
SOCI 1301 Introduction to Sociology.....	3
ENGL 2311 Technical Report Writing.....	3
Approved Elective.....	3
Subtotal	15
Fourth Term	Credit
CRIJ 2328 Police Systems and Practices or CJSA 1359 Police Systems and Practices	3
CJCR 2325 Legal Aspects of Corrections.....	3
*Humanities or Fine Arts.....	3
Approved Elective.....	3
MATH 1314 College Algebra or MATH 1333 Contemporary Mathematics for Technical Programs.....	3
Subtotal	15

Associate of Applied Science Degree Total 62

Capstone Experience: CJCR 2325

Approved Electives

CJLE 1327	CJSA 1348	CJSA 2300
CJSA 2364	CJSA 2388	CRIJ 2323/CJSA 2300
PSYC 2319	SPAN 1411	

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

Corrections Option (4CRIJ-CORR)

Certificate of Technology

Central and North Campuses

First Term	Credit
CRIJ 1301 Introduction to Criminal Justice or CJSA 1322 Introduction to Criminal Justice	3
CRIJ 1306 Court Systems and Practices or CJSA 1313 Court Systems and Practices.....	3
CRIJ 2328 Police Systems and Practices or CRIJ 2328 Police Systems and Practices.....	3
CRIJ 2323 Legal Aspects of Law Enforcement or CJSA 2300 Legal Aspects of Law Enforcement.....	3
CRIJ 2301 Community Resources in Corrections or CJCR 2324 Community Resources in Corrections.....	3
CJLE 1327 Interviewing and Report Writing for Criminal Justice Professions	3
Subtotal	18
Second Term	Credit
CRIJ 1307 Crime in America or CJSA 1312 Crime in America.....	3
CRIJ 1310 Fundamentals of Criminal Law or CJSA 1327 Fundamentals of Criminal Law	3
Approved Elective.....	3
CJCR 2325 Legal Aspects of Corrections.....	3
CRIJ 2313 Correctional Systems and Practices or CJCR 1307 Correctional Systems and Practices	3
Subtotal	15

Certificate of Technology Total 33

Capstone Experience: CJCR 2325

Approved Electives

CJCR 1304	CJSA 1348	CJSA 2364
CJSA 2388	CRIJ 2301	CRIJ 2313/CJCR 1307
EMSP 1305	PSYC 2319	SPAN 1411

Crime Scene Technician (4CRIJ-CSTS)

Certificate of Technology

Central and North Campuses

First Term	Credit
CRIJ 1301 Introduction to Criminal Justice or CJSA 1322 Introduction to Criminal Justice	3
CRIJ 1306 Court Systems and Practices or CJSA 1313 Court Systems and Practices.....	3
CRIJ 2328 Police Systems and Practices or CJSA 1359 Police Systems and Practices	3
CRIJ 1310 Fundamentals of Criminal Law or CJSA 1327 Fundamentals of Criminal Law	3
CRIJ 2314 Criminal Investigation or CJSA 1342 Criminal Investigation	3
CJSA 1308 Criminalistics I.....	3
Subtotal	18

Second Term	Credit
DFTG 1409 Basic Computer-Aided Drafting	4
CJSA 2323 Criminalistics II.....	3
Approved Elective.....	3
CJLE 1327 Interviewing and Report Writing for Criminal Justice Professions	3
CRIJ 2323 Legal Aspects of Law Enforcement or CJSA 2300 Legal Aspects of Law Enforcement	3
Subtotal	16

Certificate of Technology Total 34

Capstone Experience: CRIJ 2323/CJSA 2300

Approved Electives

CJSA 2364	CJSA 2388
CRIJ 1307/CJSA 1312	SPAN 1411

Basic Fire and Arson Investigator

Certificate

Central and North Campuses

Persons possessing regular Texas Peace Officer Licenses 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 for arson investigator credentials through the Texas Commission on Fire Protection. Persons with Texas Peace Officer Licenses and Fire and Arson Investigator Credentials may work in police departments in the Fire and Arson Division.

Culinary Arts

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.

Chef Training (4CULA-C)

Certificate of Technology

Central Campus

First Term	Credit
CHEF 1305 Sanitation and Safety	3
CHEF 1401 Basic Food Preparation	4
RSTO 1313 Hospitality Supervision.....	3
RSTO 1325 Purchasing for Hospitality Operations	3
IFWA 1318 Nutrition for the Food Service Professional or HECO 1322 Nutrition and Diet Therapy.....	3
Subtotal	16

Second Term	Credit
RSTO 2301 Principles of Food and Beverage Controls.....	3
PSTR 1301 Fundamentals of Baking	3
Approved Elective.....	3
Approved Elective.....	3
Approved Elective.....	3
Subtotal	15

Third Term	Credit
CHEF 2365 Practicum (or Field Experience) - Culinary Arts/Chef Training or RSTO 2365 Practicum - Restaurant, Culinary, and Catering Management/Manager	3
Approved Elective.....	3
Approved Elective.....	3
Subtotal	9

Certificate of Technology Total 40

Capstone Experience: CHEF 2365 or RSTO 2365

Approved Electives

CHEF 1313	CHEF 1345	CHEF 2365
CHEF 2402	IFWA 1305	IFWA 2441
PSTR 2431	RSTO 1301	RSTO 2365
RSTO 2405	PSTR 2470	CHEF 1402

TECHNICAL PROGRAMS

Culinary Arts - Chef Training (3CULA-C)

Associate of Applied Science Degree

Central Campus

First Term

Credit

CHEF 1305 Sanitation and Safety	3
CHEF 1401 Basic Food Preparation	4
RSTO 1325 Purchasing for Hospitality Operations.....	3
PSTR 1301 Fundamentals of Baking	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or ***Science Elective	3

Subtotal **16**

Second Term

Credit

IFWA 1305 Food Service Equipment and Planning	3
RSTO 1313 Hospitality Supervision.....	3
RSTO 2405 Management of Food Production and Service ...	4
CHEF 2402 Saucier	4
Speech.....	3

Subtotal **17**

Third Term

Credit

Approved Elective.....	3
Approved Elective.....	3
Approved Elective.....	3
IFWA 1318 Nutrition for the Food Service Professional or HECO 1322 Nutrition & Diet Therapy.....	3
ENGL 1301 Composition I.....	3
PHED Activity.....	1

Subtotal **16**

Fourth Term

Credit

RSTO 2301 Principles of Food and Beverage Controls.....	3
CHEF 2365 Practicum (or Field Experience) - Culinary Arts/Chef Training or RSTO 2365 Practicum (or Field Experience) - Restaurant, Culinary, and Catering Management/ Manager	3
**Behavioral or Social Science.....	3
**Humanities or Fine Arts.....	3
PSTR 2431 Advanced Pastry Shop	4
PHED Activity.....	1

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 Fine 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

CHEF 1313	CHEF 1345	CHEF 2365
IFWA 2441 R	RSTO 1301	RSTO 2365
PSTR 2470	CHEF 1402	

Culinary Arts - Healthy Cuisin (4CULA-HCUI)

Certificate of Technology

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

Credit

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

Subtotal **13**

Second Term

Credit

RSTO 2301 Principles of Food and Beverage Control.....	3
PSTR 1301 Fundamentals of Baking	3
CHEF 1402 Principles of Healthy Cuisine	4
PSTR 2470 Healthy Baking and Pastries	4
Approved Elective.....	3

Subtotal **17**

Certificate of Technology Total **30**

Capstone Experience: CHEF 1402

Approved Electives

CHEF 1313	CHEF 1345	CHEF 2365
CHEF 2402	DITA 1400	DITA 1401
IFWA 1305	IFWA 2441	PSTR 2431
RSTO 1301	RSTO 2365	RSTO 2405

Culinary Arts (4CULA)

Certificate of Technology

North Campus

North campus' 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 the 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

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.

North campus' 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 1305 Sanitation and Safety	3
CHEF 1401 Basic Food Preparation	4
PSTR 1301 Fundamentals of Baking	3
IFWA 2446 Quantity Procedures	4
PHED Activity.....	1
Subtotal	18

Second Term	Credit
CHEF 1345 International Cuisine	3
RSTO 2431 Food Service Management	4
RSTO 2301 Principles of Food & Beverage Control.....	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 (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

Associate of Applied Science Degree Total **62**

Verification of workplace competencies: External Field Experience - CHEF 2365

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

TECHNICAL PROGRAMS

Pastry Chef Specialty (4CULA-PC)

Certificate of Technology

North Campus

The pastry chef program provides students opportunities 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.

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
Subtotal	15

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 Bakery/Pastry	3
Subtotal	15

Third Term	Credit
CHEF 1310 Garde Manger	3
IFWA 1318 Nutrition for the Food Service Professional.....	3
PSTR 2365 Practicum (or Field Experience) - Baking and Pastry Arts/Baker/Pastry Chef.....	3
Subtotal	9

Certificate of Technology Total **39**

Capstone Experience: PSTR 2365

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

PostY1Summer	Credit
IFWA 1318 Nutrition for the Food Service Professional.....	3
CHEF 1310 Garde Manger	3
PSTR 2365 Practicum (or Field Experience) - Baking and Pastry Arts/Baker/Pastry Chef.....	3
Subtotal	9

Third Term	Credit
ENGL 1301 Composition I.....	3
SPCH 1321 Business and Professional Speech.....	3
MATH 1314 College Algebra or MATH 1333 Contemporary Mathematics for Technical Programs.....	3
PHED Activity.....	1
*Humanities or Fine Arts.....	3
Subtotal	13

Fourth Term	Credit
*Behavioral or Social Sciences.....	3
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I.....	3
ENGL 2311 Technical Report Writing.....	3
Subtotal	9

Associate of Applied Science Degree Total **62**

Capstone Experience: PSTR 2365

** Courses which satisfy this requirement listed in the Humanities and Fine Arts and Behavioral and Social Sciences of the Transfer Core Curriculum.*

TECHNICAL PROGRAMS

Pastry and Garde Manger (MCULA-P)

Marketable Skills Achievement Award

North Campus

First Term	Credit
CHEF 1305 Sanitation and Safety	3
PSTR 1301 Fundamentals of Baking	3
Subtotal	6

Second Term	Credit
PSTR 2331 Advanced Pastry Shop.....	3
Subtotal	3

PostY1Summer	Credit
CHEF 1310 Garde Manger	3
Subtotal	3

Marketable Skills Achievement Award Total	12
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Assistant Cook Specialty (6CULA-ACKS)

Occupational Certificate

Central Campus

First Term	Credit
CHEF 1305 Sanitation and Safety	3
IFWA 1305 Food Service Equipment & Planning	3
CHEF 1401 Basic Food Preparation	4
Subtotal	10

Second Term	Credit
RSTO 2301 Principals of Food & Beverage Control.....	3
RSTO 2405 Management of Food Production and Service ...	4
Subtotal	7

Occupational Certificate Total	17
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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
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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 Operations Systems	3
RSTO 2405 Management of Food Production and Service ...	4
Subtotal	7

Occupational Certificate Total	17
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Baker Specialty (6CULA-BKRS)

Occupational Certificate

Central Campus

First Term	Credit
CHEF 1305 Sanitation and Safety	3
PSTR 1301 Fundamentals of Baking	3
RSTO 1313 Hospitality Supervision.....	3
Subtotal	9

Second Term	Credit
PSTR 2431 Advanced Pastry Shop	4
RSTO 2301 Principles of Food and Beverage Controls.....	3
Subtotal	7

Occupational Certificate Total	16
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TECHNICAL PROGRAMS

Restaurant Management (4CULA-RSTR)

Certificate of Technology

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	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 2431		

Restaurant Management (3CULA-RSTR)

Associate of Applied Science Degree

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
PHED Activity.....	1
Subtotal	17

Second Term	Credit
RSTO 1313 Hospitality Supervision.....	3
RSTO 2405 Management of Food Production and Service ...	4
Approved Elective	4
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or ***Science Elective....	3
PHED Activity.....	1
Subtotal	15

Third Term	Credit
RSTO 1301 Beverage Management	3
RSTO 2301 Principles of Food and Beverage Controls.....	3
ACCT 2301 Accounting Principles I.....	3
ENGL 1301 Composition I.....	3
Approved Elective.....	3
Subtotal	15

Fourth Term	Credit
**Behavioral or Social Science	3
Speech.....	3
**Humanities or Fine Arts.....	3
Approved Elective	4
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

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 Fine Arts section of the Transfer Core Curriculum.

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

Approved Electives

CHEF 1345	CHEF 2365	CHEF 2402
IFWA 1305	IFWA 2441	PSTR 1301
PSTR 2431	CHEF 1402	PSTR 2470

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 instructions 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
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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 1341 Dental Laboratory Procedures	3
Subtotal	17
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Third Term	Credit
DNTA 2267 Practicum (or Field Experience) Dental Assisting/ Assistant	2
DNTA 1102 Communications and Behavior in the Dental Office	1
DNTA 2230 Seminar for the Dental Assistant.....	2
Subtotal	5
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Certificate of Technology Total	39
Capstone Experience: DNTA 2267	

Diesel Technology

Diesel Technology (4DEMR)

Certificate of Technology

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.

First Term	Credit
DEMR 1306 Diesel Engine I.....	3
DEMR 1410 Diesel Engine Testing and Repair I	4
DEMR 1405 Basic Electrical Systems	4
DEMR 1423 Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair	4
Subtotal	15
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Second Term	Credit
DEMR 2412 Diesel Engine Testing and Repair II	4
DEMR 1421 Power Train I	4
DEMR 1317 Basic Brake Systems.....	3
DEMR 2432 Electronic Controls	4
Subtotal	15
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Third Term	Credit
DEMR 1301 Shop Safety and Procedures	3
DEMR 1449 Diesel Engine II	4
DEMR 2334 Advanced Diesel Tune-up and Troubleshooting.....	3
DEMR 2266 Field Experience-Diesel Engine Mechanic and Repair or *DEMR 1229 Preventive Maintenance	2
Subtotal	12
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Certificate of Technology Total	42
Capstone Experience: DEMR 2266 or DEMR 2334	

**DEMR1229 is offered as a substitute course for DEMR 2266 if jobs are not available.*

TECHNICAL PROGRAMS

Diesel Technology (3DEMR)

Associate of Applied Science Degree

North Campus

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

Second Term	Credit
DEMR 2412 Diesel Engine Testing and Repair II	4
DEMR 1421 Power Train I	4
DEMR 1317 Basic Brake Systems.....	3
DEMR 2432 Electronic Controls	4
PHED Activity.....	1
Subtotal	16

Third Term	Credit
DEMR 1301 Shop Safety and Procedures	3
DEMR 1449 Diesel Engine II	4
DEMR 2334 Advanced Diesel Tune-up and Troubleshooting.....	3
DEMR 2266 Field Experience-Diesel Engine Mechanic and Repair or DEMR 1229 Preventive Maintenance	2
ENGL 1301 Composition I.....	3
Subtotal	15

Fourth Term	Credit
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra	3
ENGL 2311 Technical Report Writing.....	3
SPCH 1321 Business and Professional Speech.....	3
*Behavioral or Social Science.....	3
*Humanities or Fine Arts.....	3
Subtotal	15

Associate of Applied Science Degree Total **62**

Capstone Experience: DEMR 2266 or DEMR 2334

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

Dietetics

School Food Service Specialty (6DIET-SFSV)

Occupational Certificate

Central Campus

First Term	Credit
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	Credit
CHEF 1313 Food Service Operation/Systems.....	3
RSTO 2405 Management of Food Production and Service ...	4
Subtotal	7

Occupational Certificate Total **17**

Food Service Management (4DIET-FSVC)

Certificate of Technology

Central Campus

First Term	Credit
CHEF 1305 Sanitation and Safety	3
CHEF 1401 Basic Food Preparation	4
CHEF 1313 Food Service Operation/Systems.....	3
DITA 1400 Dietary Manager I	4
RSTO 1313 Hospitality Supervision.....	3
Subtotal	17

Second Term	Credit
IFWA 1318 Nutrition for the Food Service Professional or HECO 1322 Nutrition and Diet Therapy	3
RSTO 1325 Purchasing for Hospitality Operations.....	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
RSTO 2301 Principles of Food and Beverage Controls.....	3
RSTO 2405 Management of Food Production and Service ...	4
Subtotal	16

Certificate of Technology Total **33**

Capstone Experience: RSTO 2365 or CHEF 2365

TECHNICAL PROGRAMS

Food Service Management (3DIET-FSVC)

Associate of Applied Science Degree

Central Campus

First Term	Credit
RSTO 1325 Purchasing for Hospitality Operations.....	3
CHEF 1313 Food Service Operation/Systems.....	3
CHEF 1401 Basic Food Preparation	4
CHEF 1305 Sanitation and Safety	3
HECO 1322 Nutrition and Diet Therapy or IFWA 1318 Nutrition for the Food Service Professional ..	3
PHED Activity.....	1
Subtotal	17

Second Term	Credit
RSTO 1313 Hospitality Supervision.....	3
RSTO 2405 Management of Food Production and Service	4
Approved Elective.....	3
Approved Elective	4
Subtotal	14

Third Term	Credit
Approved Elective.....	3
DITA 1400 Dietary Manager I	4
SPCH 1321 Business and Professional Speech.....	3
ENGL 1301 Composition I.....	3
PHED Activity.....	1
Subtotal	14

Fourth Term	Credit
CHEF 2365 Practicum (or Field Experience) - Restaurant, Culinary or Catering Management/Manager or RSTO 2365 Practicum (or Field Experience) - Culinary Arts/Chef Training.....	3
RSTO 2301 Principles of Food and Beverage Controls.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or ***Science Elective.....	3
*Behavioral or Social Science.....	3
Language, Philosophy, and Culture or Creative Arts.....	3
Subtotal	15

Associate of Applied Science Degree Total 60
Capstone Experience: RSTO 2365 or CHEF 2365

* Courses which satisfy this requirement are listed in the Languages, Philosophy, and Culture or Creative 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	FDNS 1169	IFWA 1305
IFWA 2441	FMLD 1372	PSTR 1301	PSTR 2431
CHEF 1402	PSTR 2470		

Dietary Manager (MDIET)

Marketable Skills Achievement Award

Central Campus

First Term	Credit
DITA 1400 Dietary Manager I	4
FDNS 1168 Practicum(or Field Experience)-Dietetics/Dietitian (RD).....	1
Subtotal	5

Second Term	Credit
DITA 1401 Dietary Manager II	4
FDNS 1169 Practicum(or Field Experience)- Dietetics/Dietitian (RD).....	1
Subtotal	5

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
ELPT 1215 Electrical Calculations I.....	2
ELPT 1311 Basic Electrical Theory.....	3
ELPT 1325 National Electric Code I.....	3
ELPT 1429 Residential Wiring	4
ITSC 1309 Integrated Software Applications or CPMT 1303 Introduction to Computer Technology or BCIS 1305 Computer Applications.....	3
PHED Activity.....	1
Subtotal	16

TECHNICAL PROGRAMS

TECHNICAL PROGRAMS

Second Term	Credit
ELPT 1345 Commercial Wiring.....	3
ELPT 1351 Electrical Machines.....	3
ELPT 2325 National Electric Code II	3
ELPT 2215 Electrical Calculations II	2
MATH 1333 Contemporary Mathematics	3
ENGL 1301 Composition I.....	3
Subtotal	17

Third Term	Credit
ELPT 1441 Motor Controls	4
ELPT 2343 Electrical Systems Design or Approved Elective ...	3
*Behavioral or Social Sciences	3
Speech.....	3
ELPT 2305 Motors and Transformers.....	3
Subtotal	16

Fourth Term	Credit
ELPT 2337 Electrical Planning and Estimating.....	3
ELPT 2319 Programmable Logic Controllers I or Approved Elective.....	3
ELPT 2364-Practicum-Electrical and Power Transmission Installation/Installer, General or Approved Elective.....	3
*Humanities or Fine Arts.....	3
PHED Activity	1
ENGL 2311 Technical Report Writing.....	3
Subtotal	16

Associate of Applied Science Degree Total **65**
Capstone Experience: ELPT 2337

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

Approved Electives			
EECT 1340	ELNT 1343	ELPT 1355	ELPT 1357
ELPT 1440	ELPT 2301	ELPT 2347	ELPT 2449

Electrical Technology (6ELEC-TEC)

Occupational Certificate Central and North Campuses

First Term	Credit
ELPT 1215 Electrical Calculations I.....	2
ELPT 1311 Basic Electrical Theory.....	3
ELPT 1325 National Electric Code I.....	3
ELPT 1429 Residential Wiring	4
ELPT 1345 Commercial Wiring.....	3
Subtotal	15

Occupational Certificate Total **15**
Capstone Experience: ELPT 1345

Electrical Technology (4ELEC-TEC)

Certificate of Technology

Central and North Campuses

First Term	Credit
ELPT 1215 Electrical Calculations I.....	2
ELPT 1311 Basic Electrical Theory.....	3
ELPT 1325 National Electric Code I.....	3
ELPT 1345 Commercial Wiring.....	3
ELPT 1351 Electrical Machines.....	3
ELPT 1429 Residential Wiring	4
Subtotal	18

Second Term	Credit
ELPT 1441 Motor Controls	4
ELPT 2215 Electrical Calculations II	2
ELPT 2325 National Electric Code II	3
ELPT 2343 Electrical Systems Design or Approved Elective ..	3
ELPT 2305 Motors and Transformers.....	3
ELPT 2364 Practicum - Electrical and Power Transmission Installation/Installer, General or Approved Elective.....	3
Subtotal	18

Certificate of Technology Total **36**

Capstone Experience: ELPT 2215

Approved Electives

EECT 1340	ELPT 1355	ELPT 1357
ELPT 1440	ELPT 2301	ELPT 2319
ELPT 2337	ELPT 2347	ELPT 2449

Electrical Power Generation Technician Specialty (4ELEC-PWRG)

Certificate of Technology

Central Campus

First Term	Credit
ELPT 1311 Basic Electrical Theory.....	3
CETT 1325 Digital Fundamentals	3
ELMT 2351 Power Generation Fundamentals.....	3
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I.....	3
ELPT 1215 Electrical Calculations I.....	2
Subtotal	14

Second Term	Credit
ELPT 2319 Programmable Logic Controllers I.....	3
ELPT 2305 Motors and Transformers.....	3
ELTN 1343 Electrical Troubleshooting	3
ELPT 2339 Electrical Power Distribution or ELPT 2364 Practicum (or Field Experience) - Electrical and Power Transmission Installation/Installer, General.....	3
Subtotal	12

Certificate of Technology Total **26**

Capstone Experience: ELPT 2339 or ELPT 2364

Electrical Power Generation Technician Specialty (3ELEC-PWRG)

Associate of Applied Science Degree

Central Campus

First Term	Credit
ENER 1350 Overview of Energy Industry	3
ELMT 2351 Power Generation Fundamentals.....	3
Math 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra	3
ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications	3
PHED Activity	1
OSHT 1320 Energy Industrial Safety	3
Subtotal	16
<hr/>	
Second Term	Credit
ENGL 1301 Composition I.....	3
PHED Activity	1
ENER 1330 Basic Mechanical Skills for Energy	3
ELPT 1311 Basic Electrical Theory.....	3
CETT 1325 Digital Fundamentals	3
ELPT 1215 Electrical Calculations	2
Subtotal	15
<hr/>	
Third Term	Credit
*Behavioral or Social Sciences	3
SCIT 1418 Applied Physics or CTEC 1401 Applied Petrochemical Technology	4
SPCH 1321 Business & Professional Speech	3
ELPT 2347 Electrical Testing and Maintenance	3
ELPT 2305 Motors and Transformers.....	3
Subtotal	16
<hr/>	
Fourth Term	Credit
ELTN 1343 Electrical Troubleshooting	3
ENGL 2311 Technical Report Writing.....	3
*Humanities or Fine Arts.....	3
ELPT 2319 Programmable Logic Controllers I.....	3
ELPT 2339 Electrical Power Distribution or 2364 Practicum (or Field Experience) -Electrical and Power Transmission Installation/Installer, General	3
Subtotal	15
<hr/>	
Associate of Applied Science Degree Total	62
Capstone Experience: ELPT 2339 or ELPT 2364	

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

Electronics Technology

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	Credit		
CETT 1303 DC Circuits	3		
CETT 1325 Digital Fundamentals	3		
ITSC 1325 Personal Computer Hardware.....	3		
Subtotal	9		
<hr/>			
Second Term	Credit		
CETT 1305 AC Circuits.....	3		
CETT 1349 Digital Systems.....	3		
CETT 1329 Solid State Devices	3		
CETT 2345 Computer System Troubleshooting or Approved elective	3		
Subtotal	12		
<hr/>			
Third Term	Credit		
RBTC 1355 Sensors and Automation.....	3		
EECT 1340 Telecommunications Transmission Media	3		
EECT 2439 Communications Circuits or Approved Elective ...	4		
ELMT 2341 Electromechanical Systems or ELPT 2319 Programmable Logic Controllers I	3		
Subtotal	13		
<hr/>			
Certificate of Technology Total	34		
Capstone Experience: CPMT 2345			
<hr/>			
Approved Electives			
CETT 2449	EECT 2439	CETT 1357	CPMT 1349
ITCC 1401	ITSC 1321	EECT 1307	ITCC 1404
ITCC 2408	FCEL 1405	ELMT 2335	

TECHNICAL PROGRAMS

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	Credit
CETT 1303 DC Circuits	3
CETT 1325 Digital Fundamentals	3
ENGL 1301 Composition I.....	3
Speech.....	3
ITSC 1305 Introduction to PC Operating Systems.....	3
*MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra	3
PHED Activity.....	1
Subtotal	19

Second Term	Credit
CETT 1305 AC Circuits.....	3
CETT 1349 Digital Systems.....	3
CETT 1329 Solid State Devices	3
RBTC 1355 Sensors.....	3
CPMT 2345 Computer System Troubleshooting or Approved Elective.....	3
PHED Activity.....	1
Subtotal	16

Third Term	Credit
ELMT 2341 Electromechanical Systems or ELPT 2319 Programmable Logic Controllers I	3
CETT 1357 Linear Integrated Circuits.....	3
CPMT 1349 Computer Networking Technology or ITCC 1401 Cisco Exploration 1 - Network Fundamentals	3
ELMT 2333 Industrial Electronics.....	3
ENGL 2311 Technical Report Writing.....	3
**Humanities or Fine Arts.....	3
Subtotal	18

Fourth Term	Credit
EECT 1340 Telecommunications Transmission Media or Approved Elective	3
CETT 2449 Research and Project Design or Approved Elective.....	4
EECT 1307 Convergence Technologies or Approved Elective	3
ELMT 2335 Certified Electronics Technician Training or EECT 2367 Practicum (or Field Experience) - Electrical, Electronic and Communications Engineering Technology/Technician.....	3
**Behavioral or Social Sciences.....	3
Subtotal	16

Associate of Applied Science Degree Total 69
Capstone Experience: EECT 2367

Approved Electives			
EECT 2439	ITCC 1404	ITSC 1321	ITCC 2408
ITSC 1305	ELMT 1305	FCEL 1405	

* Students planning to pursue a baccalaureate degree should enroll in MATH 1314.
 ** Courses which satisfy this requirement are listed in the Humanities and Fine Arts and Behavioral and Social Sciences sections of the Transfer Core Curriculum.

TECHNICAL PROGRAMS

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.

First Term	Credit
CETT 1303 DC Circuits	3
CETT 1325 Digital Fundamentals	3
ITSC 1325 Personal Computer Hardware.....	3
ELMT 1305 Basic Fluid Power.....	3
INTC 1301 Principles of Industrial Measurements I.....	3
Subtotal	15

Second Term	Credit
CETT 1305 AC Circuits.....	3
CETT 1349 Digital Systems.....	3
CETT 1329 Solid State Devices	3
RBTC 1355 Sensors.....	3
CPMT 1349 Computer Networking Technology or ITCC 1401 Cisco Exploration 1 - Network Fundamentals 3	
Subtotal	15

Third Term	Credit
ELMT 2341 Electromechanical Systems or ELPT 2319 Programmable Logic Controllers I.....	3
CETT 1357 Linear Integrated Circuits.....	3
ELMT 2333 Industrial Electronics.....	3
FCEL 1405 Fuel Cell and Alternative/Renewable Energy or CETT 2449 Research and Project Design	4
EECT 1307 Convergence Technologies or Approved Elective	3
Subtotal	16

Certificate of Technology Total **46**

Capstone Experience: ELMT 2333

Approved Electives:

CPMT 2345 EECT 1340 ITSC 1305

Electronics Technology (6ELCTR-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.

First Term	Credit
CETT 1303 DC Circuits	3
CETT 1325 Digital Fundamentals	3
Subtotal	6

Second Term	Credit
CETT 1305 AC Circuits.....	3
CETT 1329 Solid State Devices	3
CETT 1357 Linear Integrated Circuits.....	3
Subtotal	9

Third Term	Credit
EECT 2439 Communications Circuits	4
EECT 1307 Convergence Technologies	3
ELMT 2335 Certified Electronics Technician Training	3
Subtotal	10

Occupational Certificate Total **25**

Capstone Experience: EECT 2335

TECHNICAL PROGRAMS

Electronics Maintenance Technology (6ELCTR-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	Credit
CETT 1303 DC Circuits	3
CETT 1325 Digital Fundamentals	3
ITSC 1305 Introduction to PC Operating Systems.....	3
Subtotal	9
Second Term	Credit
ITSC 1325 Personal Computer Hardware.....	3
CPMT 1349 Computer Networking Technology or ITCC 1401 Cisco Exploration 1 - Network Fundamentals	3
CPMT 2345 Computer System Troubleshooting or Approved Elective	3
Subtotal	9
Third Term	Credit
CPMT 2349 Advanced Computer Networking Technology or Approved Elective	3
EECT 1307 Convergence Technologies or Approved Elective	3
Subtotal	6
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 78765-3199

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 Emergency Medical Technology curriculum adheres to the curriculum set forth by the National Highway Traffic Safety Administration (NHTSA) National Emergency Medical Services Education Standards, 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.

TECHNICAL PROGRAMS

Emergency Medical Technology (6EMT)

Occupational Certificate

Central and North Campuses

First Term	Credit
EMSP 1501 Emergency Medical Technician	5
EMSP 1160 Clinical-Emergency Medical Technician-Basic.....	1
**EMSP 1371 Anatomy and Physiology for Emergency Care	3
Subtotal	9

Second Term	Credit
EMSP 1338 Introduction to Advanced Practice.....	3
EMSP 1355 Trauma Management	3
EMSP 1356 Patient Assessment and Airway Management.....	3
EMSP 1260 Clinical - Emergency Medical Technician - Intermediate	2
Subtotal	11

Occupational Certificate Total **20**

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

Note: Students must pass each course listed in the degree or certificate for emergency medical technology with a grade of C or higher to be eligible to receive a degree or certificate.

Emergency Medical Technology (4EMT)

Certificate of Technology

Central and North Campuses

First Term	Credit
EMSP 1501 Emergency Medical Technician	5
** EMSP 1371 Anatomy and Physiology for Emergency Care	3
EMSP 1160 Clinical -Emergency Medical Technician - Basic.....	1
Subtotal	9

Second Term	Credit
EMSP 1338 Introduction to Advanced Practice.....	3
EMSP 1355 Trauma Management	3
EMSP 1356 Patient Assessment and Airway Management.....	3
EMSP 1260 Clinical - Emergency Medical Technician - Intermediate	2
Subtotal	11

Third Term	Credit
EMSP 2348 Emergency Pharmacology.....	3
EMSP 2444 Cardiology	4
EMSP 2161 Clinical - Emergency Medical Technician - Paramedic I.....	1
Subtotal	8

Fourth Term	Credit
EMSP 2434 Medical Emergencies	4
EMSP 2330 Special Populations	3
EMSP 2162 Clinical - Emergency Medical Technician - Paramedic II.....	1
Subtotal	8

Fifth Term	Credit
EMSP 2243 Assessment Based Management.....	2
EMSP 2168 Practicum/Field Experience - Emergency Medical Technician - Paramedic.....	1
Subtotal	3

Certificate of Technology Total **39**

Capstone Experience: EMSP 2243 and EMSP 2168

Eligible For Credential Exam: National Registry of EMT

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

Note: Students must pass each course listed in the degree or certificate for emergency medical technology with a grade of C or higher to be eligible to receive a degree or certificate.

Emergency Medical Technology (3EMT)

Associate of Applied Science Degree

Central and North Campuses

First Term	Credit
EMSP 1501 Emergency Medical Technician	5
EMSP 1160 Clinical - Emergency Medical Technician - Basic..	1
ENGL 1301 Composition I.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra.....	3
**EMSP 1371 Anatomy and Physiology for Emergency Care	3
Subtotal	15

Second Term	Credit
EMSP 1338 Introduction to Advanced Practice.....	3
EMSP 1355 Trauma Management	3
EMSP 1356 Patient Assessment and Airway Management.....	3
EMSP 1260 Clinical - Emergency Medical Technician - Intermediate	2
ENGL 1302 Composition II or ENGL 2311 Technical Report Writing	3
PHED Activity.....	1
Subtotal	15

Third Term	Credit
EMSP 2348 Emergency Pharmacology.....	3
EMSP 2444 Cardiology	4
EMSP 2161 Clinical - Emergency Medical Technician - Paramedic I.....	1
*Humanities or Fine Arts.....	3
ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications	3
Subtotal	14

Fourth Term	Credit
EMSP 2434 Medical Emergencies	4
EMSP 2330 Special Populations	3
EMSP 2162 Clinical - Emergency Medical Technician - Paramedic II.....	1
PHED Activity	1
Speech.....	3
*Behavioral or Social Sciences.....	3
Subtotal	15

PostY2Summer	Credit
Approved Elective	4
EMSP 2243 Assessment Based Management.....	2
EMSP 2168 Practicum/Field Experience - Emergency Medical Technician - Paramedic.....	1
Subtotal	7

Associate of Applied Science Degree Total **66**
Capstone Experience: EMSP 2243 & EMSP 2168
Eligible for Credentialing Exam: National Registry of EMT

Approved Electives:

EMSP 2359 EMSP 2160 EMSP 1491 EMSP 1191
** Courses which satisfy this requirement are listed in the Humanities and Fine 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.*

Note: Students must pass each course listed in the degree or certificate for emergency medical technology with a grade of C or higher to be eligible to receive a degree or certificate.

Emergency Medical Technology Basic and Intermediate (6EMT-B&I)

Occupational Certificate

North Campus

First Term	Credit
EMSP 1501 EMT Basic	5
EMSP 1160 Clinical-Emergency Medical Technician-Basic.....	1
Subtotal	6

Second Term	Credit
EMSP 1338 Introduction to Advanced Practice.....	3
EMSP 1355 Trauma Management	3
EMSP 1260 Clinical-Emergency Medical Technician- Intermediate	2
EMSP 1356 Patient Assessment and Airway Management.....	3
Subtotal	11

Occupational Certificate Total **17**
Capstone Experience: EMSP 1260

Note: Students must pass each course listed in the degree or certificate for emergency medical technology with a grade of C or higher to be eligible to receive a degree or certificate.

Engineering Design Graphics

Engineering Design Graphics Foundation Certificate (6DFTG)

Occupational Certificate

All Campuses

Upon successful completion of 16 semester credit hours, students can apply to receive a Foundation Certificate. This certificate provides a general overview and a basic knowledge and understanding of the varied disciplines of Engineering Design Graphics. Technical Drafting, a basic Computer-Aided Drafting (CAD) course and Descriptive Geometry are three of the courses required for the Foundation certificate and all higher awards. This certificate builds a foundation for continued success in the EDG program by providing important fundamental skills necessary to pursue future studies. Drafting disciplines vary widely in terminology, construction, layout and dimensioning techniques. The four courses in this certificate will help a student determine which discipline best suits their talents and abilities.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting or DFTG 1410 Specialized Basic Computer-Aided Drafting (CAD)	4
DFTG 2417 Descriptive Geometry	4
DFTG 1417 Architectural Drafting-Residential or DFTG 2402 Machine Drafting or DFTG 2423 Pipe Drafting or ARTV 1402 Introduction to Technical Animation and Rendering	4
Subtotal	16

Occupational Certificate Total **16**
Capstone Experience: DFTG 1417; or DFTG 2402; or DFTG 2423; or ARTV 1402.

This is a new exit point and is being added to capture students exiting the program and going into the drafting industry and is recommended by the Engineering Graphics Advisory Board.

TECHNICAL PROGRAMS

Engineering Design Graphics (4DFTG)

Certificate of Technology

All Campuses

A Certificate of Technology focuses on 31 semester credit hours of technical coursework. This is a fast track award for those wishing to concentrate their studies and enter the job market as soon as possible. San Jacinto College offers five certificates of technology, they include:

Architectural/civil/structural, mechanical, petro/industrial and technical animation/3D modeler and general drafting.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
Engineering Design Graphic Elective	4
Engineering Design Graphic Elective	4
Subtotal	16

Second Term	Credit
DFTG 2417 Descriptive Geometry	4
Engineering Design Graphic Elective	4
Engineering Design Graphic Elective	4
+ DFTG 2386 Internship - Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project-Advanced Drafting	3
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.

Engineering Design Graphics electives: (Choose four)

ARCE 1421	ARCE 1452	DFTG 1402	DFTG 1410
DFTG 1417	DFTG 1441	DFTG 1445	DFTG 1495
DFTG 2402	DFTG 2407	DFTG 2408	DFTG 2419
DFTG 2421	DFTG 2423	DFTG 2428	DFTG 2431
DFTG 2432	DFTG 2435	DFTG 2436	DFTG 2440
DFTG 2447	DFTG 2457		

Engineering Design Graphics (5DFTG)

Level II Certificate

All Campuses

San Jacinto College offers five Level II Certificates, including: architectural/civil/structural, mechanical, petro/industrial, technical animation/3D modeler and general drafting. The Level II Certificate is comprised of 47 semester credit hours of EDG technical coursework, three semester credit hours of mathematics and 3 semester credit hours of English. This is a fast track award for those wishing to concentrate their studies and enter the job market as soon as possible.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
ENGL 1301 Composition I.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 or higher	3
Subtotal	14

Second Term	Credit
DFTG 2417 Descriptive Geometry	4
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
Subtotal	12

Third Term	Credit
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
Subtotal	16

Fourth Term	Credit
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
+ DFTG 2386 Internship - Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project - Advanced Drafting	3
Subtotal	11

Level II Certificate Total **53**

+Capstone Experience: DFTG 2386 or DFTG 2438

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

Level II certificates in multiple Engineering Design Graphics Specialties WILL NOT be awarded.

Engineering Design Graphics electives (choose eight)

ARCE 1421	ARCE 1452	DFTG 1402	DFTG 1410
DFTG 1417	DFTG 1441	DFTG 1445	DFTG 1495
DFTG 2402	DFTG 2407	DFTG 2408	DFTG 2419
DFTG 2421	DFTG 2423	DFTG 2428	DFTG 2431
DFTG 2432	DFTG 2435	DFTG 2436	DFTG 2440
DFTG 2447	DFTG 2457		

Engineering Design Graphics (3DFTG)

Associates of Applied Science

All Campuses

Engineering design graphics is a technical field where engineering data is communicated through drawings and three-dimensional models. Drafters provide support to designers, architects, and all types of engineers, preparing documentation and creating finished drawings for production in the engineering, construction or manufacturing industries. Drafters translate the ideas of engineers and architects from rough sketches, design layouts, specifications and calculations into working drawings, maps, plans, illustrations and 3D models which are used in producing marketable products. They prepare drawings and/or 3D models using computer aided drafting, design, and 3D modeling software in the fields of mechanical, petrochemical, architectural, civil, structural and technical illustration.

The engineering design graphics (EDG) department provides several certificate levels and AAS degree options. Working with local industry, courses have been clustered into specialty disciplines which provide concentration in specific areas of study, they include: architectural/civil/structural, mechanical, petro/industrial and technical animation/3D modeler.

San Jacinto College offers five AAS degrees, including: architectural/civil/structural, mechanical, petro/industrial, technical animation/3D modeler and general drafting. Each is comprised of the minimum 15 semester credit hours of general education courses and 45 semester credit hours of EDG technical coursework. Four of the AAS degrees concentrate on unique disciplines of study called Specialties. The general drafting AAS permits the student to choose from a variety of discipline courses to fulfill the degree's requirements.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
ENGL 1301 Composition I.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or higher	3
Subtotal	14

Second Term	Credit
DFTG 2417 Descriptive Geometry	4
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
Subtotal	16

Third Term	Credit
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
*Oral Communication or ENGL 2311 Technical Report Writing	3
*Behavioral or Social Sciences.....	3
Subtotal	18

Fourth Term	Credit
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
+ DFTG 2386 Internship - Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project - Advanced Drafting	3
*Humanities or Fine Arts.....	3
Subtotal	14

Associate of Applied Science Degree Total 62
+ 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 Fine 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.

AAS Degrees in multiple Engineering Design Graphics Specialties WILL NOT be awarded.

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 DFTG 1417 DFTG 2421
 DFTG 2428 and three (3) Engineering Design Graphics electives,
 excluding DFTG 1413

Mechanical Specialty:
 DFTG 1445 DFTG 1495 DFTG 2402 DFTG 2435
 DFTG 2440
 and three (3) Engineering Design Graphics electives, excluding
 DFTG 1413

Petro/Industrial Specialty:
 ARCE 1452 DFTG 2407 DFTG 2408 DFTG 2421
 DFTG 2423 DFTG 2457 and three (3) Engineering Design
 Graphics electives, excluding DFTG 1413

**Technical Animator/Modeler Specialty Electives:
 (choose four):**
 ARCE 1421 DFTG 1402 DFTG 1441 DFTG 1445
 DFTG 2440 DFTG 2447;

TECHNICAL PROGRAMS

Approved Technical Animator/Modeler Specialty Elective (choose two):

ARCE 1421	DFTG 1402	DFTG 1441	DFTG 1445
DFTG 1495	DFTG 2431	DFTG 2435	DFTG 2440
DFTG 2447	DFTG 2457 and two(2) Engineering Design graphics electives, excluding DFTG 1413		

Engineering Design Graphics electives: (Choose eight):

ARCE 1421	ARCE 1452	DFTG 1402	DFTG 1410
DFTG 1417	DFTG 1441	DFTG 1445	DFTG 1495
DFTG 2402	DFTG 2407	DFTG 2408 D	FTG 2419
DFTG 2421	DFTG 2423	DFTG 2428 D	FTG 2431
DFTG 2432	DFTG 2435	DFTG 2436	DFTG 2440
DFTG 2447	DFTG 2457		

Engineering Design Graphics Architectural/Civil/Structural Specialty (4DFT-A)

Certificate of Technology

All Campuses

A Certificate of Technology focuses on 31 semester credit hours of technical coursework. This is a fast track award for those wishing to concentrate their studies in EDG and enter the job market as soon as possible. San Jacinto College offers five certificates of technology, they include:

Architectural/civil/structural, mechanical, petro/industrial and technical animation/3D modeler and general drafting.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
Architectural/Civil/Structural Specialty Elective I	4
Architectural/Civil/Structural Specialty Elective I	4
Subtotal	16
Second Term	Credit
DFTG 2417 Descriptive Geometry	4
Architectural/Civil/Structural Specialty Elective I	4
Architectural/Civil/Structural Specialty Elective I	4
+ DFTG 2386 Internship - Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project - Advanced Drafting	3
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 (choose four):

ARCE 1421	ARCE 1452	DFTG 1417	DFTG 2421
DFTG 2428	DFTG 2431		

Engineering Design Graphics Architectural/Civil/Structural Specialty (5DFT-A)

Level II Certificate

All Campuses

San Jacinto College offers five Level II Certificates, including: Architectural/Civil/Structural, Mechanical, Petro/Industrial, Technical Animation/3D Modeler and general drafting. The Level II Certificate is comprised of 47 semester credit hours of EDG technical coursework, 3 semester credit hours of mathematics and 3 semester credit hours of English. This is a fast track award for those wishing to concentrate their studies and enter the job market as soon as possible.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
ARCE 1421 Architectural Illustration	4
ENGL 1301 Composition I.....	3
Subtotal	15

Second Term	Credit
DFTG 1417 Arch Drafting - Residential	4
DFTG 2417 Descriptive Geometry	4
ARCE 1452 Structural Drafting	4
Subtotal	12

Third Term	Credit
DFTG 2421 Topographical Drafting	4
DFTG 2428 Arch Drafting-Commercial	4
DFTG 2431 Adv. Technology in Arch. Dftg	4
Math 1333 Contemporary Mathematics for Technical Programs or 1314 College Algebra or higher	3
Subtotal	15

Fourth Term	Credit
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
+ DFTG 2386 Internship - Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project - Advanced Drafting	3
Subtotal	11

Level II Certificate Total 53

+ Capstone Experience: DFTG 2386 or DFTG 2438

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

Level II Certificates in multiple Engineering Design Graphics courses WILL NOT be awarded.

Engineering Design Graphics Electives (choose two):

DFTG 1402	DFTG 1410	DFTG 1445	DFTG 1495
DFTG 2402	DFTG 2407	DFTG 2408	DFTG 2419
DFTG 2423	DFTG 2432	DFTG 2435	DFTG 2436
DFTG 2440	DFTG 1441	DFTG 2447	DFTG 2457

Engineering Design Graphics Architectural/Civil/ Structural Specialty (3DFT-A)

Associate of Applied Science Degree

All Campuses

Engineering Design Graphics is a technical field where engineering data is communicated through drawings and three-dimensional models. Drafters provide support to designers, architects, and all types of engineers, preparing documentation and creating finished drawings for production in the engineering, construction or manufacturing industries. Drafters translate the ideas of engineers and architects from rough sketches, design layouts, specifications and calculations into working drawings, maps, plans, illustrations and 3D models which are used in producing marketable products. They prepare drawings and/or 3D models using Computer Aided Drafting, Design, and 3D modeling software in the fields of mechanical, petrochemical, architectural, civil, structural and technical illustration.

The Engineering Design Graphics (EDG) department provides several certificate levels and AAS degree options. Working with local industry, courses have been clustered into Specialty disciplines which provide concentration in specific areas of study, they include: architectural/civil/structural, mechanical, petro/industrial and technical animation/3D modeler.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
ENGL 1301 Composition I.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or higher	3

Subtotal **14**

Second Term	Credit
DFTG 2417 Descriptive Geometry	4
Architectural/Civil/Structural Specialty Elective	4
Architectural/Civil/Structural Specialty Elective	4
Architectural/Civil/Structural Specialty Elective	4

Subtotal **16**

Third Term	Credit
Architectural/Civil/Structural Specialty Elective	4
Architectural/Civil/Structural Specialty Elective	4
Engineering Design Graphics Elective	4
*Oral Communication or ENGL 2311 Technical Report Writing	3
*Behavioral or Social Sciences	3

Subtotal **18**

Fourth Term	Credit
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
+ DFTG 2386 Internship - Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project - Advanced Drafting	3
*Humanities or Fine Arts.....	3

Subtotal **14**

Associate of Applied Science Degree Total **62**
+ 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 Fine 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.*

AAS Degrees in multiple Engineering Design Graphics Specialties WILL NOT be awarded.

Architectural/Civil/Structural Specialty Electives (choose five):

ARCE 1421	ARCE 1452	DFTG 1417
DFTG 2421	DFTG 2428	DFTG 2431

Engineering Design Graphics Electives (Choose three):

ARCE 1421	ARCE 1452	DFTG 1402	DFTG 1410
DFTG 1417	DFTG 1441	DFTG 1445	DFTG 1495
DFTG 2402	DFTG 2407	DFTG 2408	DFTG 2419
DFTG 2421	DFTG 2423	DFTG 2428	DFTG 2431
DFTG 2432	DFTG 2435	DFTG 2436	DFTG 2440
DFTG 2447	DFTG 2457		

TECHNICAL PROGRAMS

Engineering Design Graphics Mechanical Specialty (4DFT-M)

Certificate of Technology

All Campuses

A Certificate of Technology focuses on 31 semester credit hours of technical coursework. This is a fast track award for those wishing to concentrate their studies and enter the job market as soon as possible. San Jacinto College offers five certificates of technology, they include:

Architectural/civil/structural, mechanical, petro/industrial and technical animation/3D modeler and general drafting.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
Mechanical Specialty Elective	4
Mechanical Specialty Elective	4
Subtotal	16

Second Term	Credit
DFTG 2417 Descriptive Geometry	4
Mechanical Specialty Elective	4
Mechanical Specialty Elective	4
+ DFTG 2386 Internship - Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project - Advanced Drafting	3
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.

Mechanical Specialty Electives: (choose four)

DFTG 1445 DFTG 1495 DFTG 2402 DFTG 2435
DFTG 2440

Engineering Design Graphics Mechanical Specialty (5DFT-M)

Level II Certificate

San Jacinto College offers five Level II Certificates, including: architectural/civil/structural, mechanical, petro/industrial, technical animation/3D modeler and general drafting. The Level II Certificate is comprised of 47 semester credit hours of EDG technical coursework, 3 semester credit hours of mathematics and 3 semester credit hours of English. This is a fast track award for those wishing to concentrate their studies in EDG and enter the job market as soon as possible.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
ENGL 1301 Composition I.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or higher	3
Subtotal	14

Second Term	Credit
DFTG 2417 Descriptive Geometry	4
DFTG 2402 Machine Drafting	4
Engineering Design Graphics Elective	4
Subtotal	12

Third Term	Credit
DFTG 1445 Parametric Modeling and Design	4
DFTG 2440 Solid Modeling/Design	4
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
Subtotal	16

Fourth Term	Credit
DFTG 1495 Special Topics in Mechanical Drafting and Mechanical Drafting CAD/CADD.....	4
DFTG 2435 Advanced Technologies in Mechanical Design and Drafting	4
+ DFTG 2386 Internship - Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project - Advanced Drafting	3
Subtotal	11

Level II Certificate Total **53**

+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 semester in which the last required and elective Engineering Design Graphics courses are completed.

Level II certificates in multiple Engineering Design Graphics Specialties WILL NOT be awarded.

Engineering Design Graphics electives: (choose three)

ARCE 1421 ARCE 1452 DFTG 1402 DFTG 1410
DFTG 1417 DFTG 1441 DFTG 2407 DFTG 2408
DFTG 2419 DFTG 2421 DFTG 2423 DFTG 2428
DFTG 2431 DFTG 2432 DFTG 2436 DFTG 2447
DFTG 2457

Mechanical Specialty (3DFT-M)

Associate of Applied Science Degree

All Campuses

Engineering design graphics is a technical field where engineering data is communicated through drawings and three-dimensional models. Drafters provide support to designers, architects, and all types of engineers, preparing documentation and creating finished drawings for production in the engineering, construction or manufacturing industries. Drafters translate the ideas of engineers and architects from rough sketches, design layouts, specifications and calculations into working drawings, maps, plans, illustrations and 3D models which are used in producing marketable products. They prepare drawings and/or 3D models using computer aided drafting, design, and 3D modeling software in the fields of mechanical, petrochemical, architectural, civil, structural and technical illustration.

The engineering design graphics (EDG) department provides several certificate levels and AAS degree options. Working with local industry, courses have been clustered into Specialty disciplines which provide concentration in specific areas of study, they include: architectural/civil/structural, mechanical, petro/industrial and technical animation/3D modeler.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
ENGL 1301 Composition I.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or higher	3
Subtotal	14
Second Term	Credit
DFTG 2417 Descriptive Geometry	4
Mechanical Specialty Elective	4
Mechanical Specialty Elective	4
Mechanical Specialty Elective	4
Subtotal	16
Third Term	Credit
Mechanical Specialty Elective	4
Mechanical Specialty Elective	4
Engineering Design Graphics Elective	4
*Oral Communication or ENGL 2311 Technical Report Writing	3
*Behavioral or Social Sciences	3
Subtotal	18

Fourth Term	Credit
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
+ DFTG 2386 Internship - Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project - Advanced Drafting	3
*Humanities or Fine Arts.....	3
Subtotal	14

Associate of Applied Science Degree Total **62** + 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 Fine 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.

AAS Degrees in multiple Engineering Design Graphics Specialties WILL NOT be awarded.

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

Mechanical Specialty Electives (Choose five):

DFTG 1445	DFTG 1495	DFTG 2402	DFTG 2435
DFTG 2440			

Engineering Design Graphics Electives (Choose three):

ARCE 1421	ARCE 1452	DFTG 1402	DFTG 1410
DFTG 1417	DFTG 1441	DFTG 1445	DFTG 1495
DFTG 2402	DFTG 2407	DFTG 2408	DFTG 2419
DFTG 2421	DFTG 2423	DFTG 2428	DFTG 2431
DFTG 2432	DFTG 2435	DFTG 2436	DFTG 2440
DFTG 2447	DFTG 2457		

TECHNICAL PROGRAMS

Engineering Design Graphics Petro/Industrial Specialty (4DFT-PI)

Certificate of Technology

All Campuses

A Certificate of Technology focuses on 31 semester credit hours of technical coursework. This is a fast track award for those wishing to concentrate their studies in EDG and enter the job market as soon as possible. San Jacinto College offers five certificates of technology, they include:

Architectural/civil/structural, mechanical, petro/industrial and technical animation/3D modeler and general drafting.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
Petro/Industrial Specialty Elective	4
Petro/Industrial Specialty Elective	4
Subtotal	16

Second Term	Credit
DFTG 2417 Descriptive Geometry	4
Petro/Industrial Specialty Elective	4
Petro/Industrial Specialty Elective	4
+ DFTG 2386 Internship - Drafting Design Technology/ Technician, General or DFTG 2438 Final Project - Advanced Drafting	3
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:(choose four)

ARCE 1452	DFTG 2407	DFTG 2408	DFTG 2421
DFTG 2423	DFTG 2457		

Engineering Design Graphics Petro/Industrial Specialty (5DFT-PI)

Level II Certificate

All Campuses

San Jacinto College offers five Level II Certificates, including: architectural/civil/structural, mechanical, petro/industrial, technical animation/3D modeler and general drafting. The Level II Certificate is comprised of 47 semester credit hours of EDG technical coursework, 3 semester credit hours of mathematics and 3 semester credit hours of English. This is a fast track award for those wishing to concentrate their studies and enter the job market as soon as possible.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
ENGL 1301 Composition I.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or higher	3
Subtotal	14

Second Term	Credit
DFTG 2417 Descriptive Geometry	4
DFTG 2423 Pipe Drafting	4
ARCE 1452 Structural Drafting	4
Subtotal	12

Third Term	Credit
DFTG 2407 Electrical Drafting	4
DFTG 2421 Topographical Drafting	4
DFTG 2457 Advanced Technologies in Pipe Design and Drafting	4
Engineering Design Graphics Elective	4
Subtotal	16

Fourth Term	Credit
DFTG 2408 Instrumentation Drafting	4
Engineering Design Graphics Elective	4
+ DFTG 2386 Internship - Drafting and Design Technology and General Technician or DFTG 2438 Final Project - Advanced Drafting	3
Subtotal	11

Level II Certificate Total **53**

+ Capstone Experience: DFTG 2386 or DFTG 2438

Engineering Design Graphics electives: (choose two)

ARCE 1421	DFTG 1402	DFTG 1410	DFTG 1417
DFTG 1441	DFTG 1445	DFTG 1495	DFTG 2402
DFTG 2419	DFTG 2428	DFTG 2431	DFTG 2432
DFTG 2435	DFTG 2436	DFTG 2440	DFTG 2447

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

Level II certificates in multiple Engineering Design Graphics Specialties WILL NOT be awarded.

Engineering Design Graphics Petro/Industrial Specialty (3DFT-PI)

Associate of Applied Science Degree

Central Campus

Engineering design graphics is a technical field where engineering data is communicated through drawings and three-dimensional models. Drafters provide support to designers, architects, and all types of engineers, preparing documentation and creating finished drawings for production in the engineering, construction or manufacturing industries. Drafters translate the ideas of engineers and architects from rough sketches, design layouts, specifications and calculations into working drawings, maps, plans, illustrations and 3D models, which are used in producing marketable products. They prepare drawings and/or 3D models using computer aided drafting, design, and 3D modeling software in the fields of mechanical, petrochemical, architectural, civil, structural and technical illustration.

The engineering design graphics (EDG) department provides several certificate levels and AAS degree options. Working with local industry, courses have been clustered into specialty disciplines which provide concentration in specific areas of study, they include: architectural/civil/structural, mechanical, petro/industrial and technical animation/3D modeler.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
ENGL 1301 Composition I.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or higher	3
Subtotal	14

Second Term	Credit
DFTG 2417 Descriptive Geometry	4
Petro/Industrial Specialty Elective	4
Petro/Industrial Specialty Elective	4
Petro/Industrial Specialty Elective	4
Subtotal	16

Third Term	Credit
Petro/Industrial Specialty Elective	4
Petro/Industrial Specialty Elective	4
Engineering Design Graphics Elective	4
*Oral Communication or ENGL 2311 Technical Report Writing	3
*Behavioral or Social Sciences	3
Subtotal	18

Fourth Term	Credit
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
+ DFTG 2386 Internship - Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project - Advanced Drafting	3
*Humanities or Fine Arts.....	3
Subtotal	14

Associate of Applied Science Degree Total **62** + 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 Fine 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.*

AAS degrees in multiple Engineering Design Graphics Specialties WILL NOT be awarded.

Petro/Industrial Specialty Electives (choose five)

ARCE 1452	DFTG 2407	DFTG 2408	DFTG 2421
DFTG 2423	DFTG 2457		

Engineering Design Graphics Electives: (Choose three)

ARCE 1421	ARCE 1452	DFTG 1402	DFTG 1410
DFTG 1417	DFTG 1441	DFTG 1445	DFTG 1495
DFTG 2402	DFTG 2407	DFTG 2408	DFTG 2419
DFTG 2421	DFTG 2423	DFTG 2428	DFTG 2431
DFTG 2432	DFTG 2435	DFTG 2436	DFTG 2440
DFTG 2447	DFTG 2457		

TECHNICAL PROGRAMS

Engineering Design Graphics Technical Animator and 3D Modeler Specialty (4DFT-TA)

Certificate of Technology

All Campuses

A Certificate of Technology focuses on 31 semester credit hours of technical coursework. This is a fast track award for those wishing to concentrate their studies and enter the job market as soon as possible. San Jacinto College offers five certificates of technology, they include:

Architectural/civil/structural, mechanical, petro/industrial and technical animation/3D modeler and general drafting.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
Technical Animator/Modeler Specialty Elective	4
Subtotal	12

Second Term	Credit
DFTG 2417 Descriptive Geometry	4
Technical Animator/Modeler Specialty Elective	4
Technical Animator/Modeler Specialty Elective	4
Subtotal	12

Third Term	Credit
Technical Animator/Modeler Specialty Elective	4
Technical Animator/Modeler Specialty Elective	4
+ DFTG 2386 Internship - Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project - Advanced Drafting	3
Subtotal	11

Certificate of Technology Total 35

+Capstone Experience: DFTG 2386 or DFTG 2438

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

Certificates in multiple Engineering Design Graphics specialties WILL NOT be awarded.

Technical Animator/Modeler Specialty Electives: (Choose four)

ARCE 1421	DFTG 1402	DFTG 1441	DFTG 1445
DFTG 2440	DFTG 2447		

Approved Specialty Electives: (Choose one)

ARCE 1421	DFTG 1402	DFTG 1441	DFTG 1495
DFTG 2431	DFTG 2435	DFTG 2440	DFTG 2447
DFTG 2457			

Engineering Design Graphics Technical Animator and 3D Modeler Specialty (5DFT-TA)

Level II Certificate

All Campuses

San Jacinto College offers five Level II Certificates, including: architectural/civil/structural, mechanical, petro/industrial, technical animation/3D modeler and general drafting. The Level II Certificate is comprised of 47 semester credit hours of EDG technical coursework, 3 semester credit hours of mathematics and 3 semester credit hours of English. This is a fast track award for those wishing to concentrate their studies and enter the job market as soon as possible.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
Technical Animator/Modeler Specialty Elective	4
ENGL 1301 Composition I.....	3
Subtotal	15

Second Term	Credit
Technical Animator/Modeler Specialty Elective	4
DFTG 2417 Descriptive Geometry	4
Technical Animator/Modeler Specialty Elective	4
Subtotal	12

Third Term	Credit
Technical Animator/Modeler Specialty Elective	4
Approved Technical Animator/Modeler Specialty Elective ...	4
Approved Technical Animator/Modeler Specialty Elective ...	4
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or higher	3
Subtotal	15

Fourth Term	Credit
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
+ DFTG 2386 Internship - Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project - Advanced Drafting	3
Subtotal	11

Level II Certificate Total 53

+ 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 semester in which the last required and elective Engineering Design Graphics courses are completed.

Level II Certificates in multiple Engineering Design Graphics Specialties WILL NOT be awarded.

Technical Animator/Modeler Specialty electives: (choose four)

ARCE 1421	DFTG 1402	DFTG 1441
DFTG 1445	DFTG 2440	DFTG 2447

Approved Technical Animator/Modeler Specialty Elective (choose two):

ARCE 1421	DFTG 1402	DFTG 1441	DFTG 1445
DFTG 1495	DFTG 2431	DFTG 2435	DFTG 2440
DFTG 2447	DFTG 2457		

Engineering Design Graphics Electives (choose two):

ARCE 1452	DFTG 1410	DFTG 1417	DFTG 1495
DFTG 2402	DFTG 2407	DFTG 2408	DFTG 2419
DFTG 2421	DFTG 2423	DFTG 2428	DFTG 2431
DFTG 2432	DFTG 2435	DFTG 2436	DFTG 2457

Engineering Design Graphics Technical Animator/Modeler Specialty (3DFT-TA)

Associate of Applied Science Degree

All Campuses

Engineering design graphics is a technical field where engineering data is communicated through drawings and three-dimensional models. Drafters provide support to designers, architects, and all types of engineers, preparing documentation and creating finished drawings for production in the engineering, construction or manufacturing industries. Drafters translate the ideas of engineers and architects from rough sketches, design layouts, specifications and calculations into working drawings, maps, plans, illustrations and 3D models which are used in producing marketable products. They prepare drawings and/or 3D models using computer aided drafting, design, and 3D modeling software in the fields of mechanical, petrochemical, architectural, civil, structural and technical illustration. They make mathematical calculations related to the above fields using algebra, trigonometry, plane and solid geometry, applied mechanics and basic physics.

The engineering design graphics (EDG) department provides several certificate levels and AAS degree options. Working with local industry, courses have been clustered into Specialty disciplines which provide concentration in specific areas of study, they include: Architectural/Civil/Structural, Mechanical, Petro/Industrial and Technical Animation/3D Modeler.

First Term	Credit
DFTG 1405 Technical Drafting	4
DFTG 1409 Basic Computer-Aided Drafting	4
Technical Animator/Modeler Specialty Elective	4
ENGL 1301 Composition I.....	3
Subtotal	15

Second Term	Credit
DFTG 2417 Descriptive Geometry	4
Technical Animator/Modeler Specialty Elective	4
Technical Animator/Modeler Specialty Elective	4
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or higher	3
Subtotal	15

Third Term	Credit
Technical Animator/Modeler Specialty Elective	4
Approved Technical Animator/Modeler Specialty Elective ...	4
Approved Technical Animator/Modeler Specialty Elective Elective	4
*Oral Communication or ENGL 2311 Technical Report Writing	3
*Behavioral or Social Sciences.....	3
Subtotal	18

Fourth Term	Credit
Engineering Design Graphics Elective	4
Engineering Design Graphics Elective	4
+ DFTG 2386 Internship-Drafting and Design Technology/ Technician, General or DFTG 2438 Final Project-Advanced Drafting	3
*Humanities or Fine Arts.....	3
Subtotal	14

Associate of Applied Science Degree Total **62**

+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 Fine 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.

AAS degrees in multiple Engineering Design Graphics Specialties WILL NOT be awarded.

Technical Animator/Modeler Specialty Electives: (Choose four)

ARCE 1421	DFTG 1402	DFTG 1441	DFTG 1445
DFTG 2440	DFTG 2447		

Approved Technical Animator/Modeler Specialty Electives: (Choose two)

ARCE 1421	DFTG 1402	DFTG 1441	DFTG 1445
DFTG 1495	DFTG 2431	DFTG 2435	DFTG 2440
DFTG 2447	DFTG 2457		

Engineering Design Graphics Electives: (Choose two)

ARCE 1421	ARCE 1452	DFTG 1402	DFTG 1410
DFTG 1417	DFTG 1441	DFTG 1445	DFTG 1495
DFTG 2402	DFTG 2407	DFTG 2408	DFTG 2419
DFTG 2421	DFTG 2423	DFTG 2428	DFTG 2431
DFTG 2432	DFTG 2435	DFTG 2436	DFTG 2440
DFTG 2447	DFTG 2457		

TECHNICAL PROGRAMS

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. Graduates 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 (4EYE)

Certificate of Technology (Technician)

Central Campus

First Term	Credit
OPTS 1311 Visual System.....	3
HPRS 2200 Pharmacology for Health Professions	2
Subtotal	5

Second Term	Credit
OPTS 1501 Ophthalmic Dispensing	5
OPTS 2441 Ophthalmic Techniques	4
OPTS 1315 Basic Contact Lenses	3
OPTS 1266 Practicum (or Field Experience) - Opticianry/ Ophthalmic Dispensing Optician.....	2
Subtotal	14

PostY1Summer	Credit
HPRS 1105 Medical Law/Ethics for Health Professionals	1
OPTS 1166 Practicum (or Field Experience) - Opticianry/ Ophthalmic Dispensing Optician.....	1
Subtotal	2

Third Term	Credit
OPTS 2431 Advanced Ophthalmic Dispensing	4
OPTS 2266 Practicum (or Field Experience) - Opticianry/ Ophthalmic Dispensing Optician.....	2
OPTS 2445 Advanced Ophthalmic Techniques	4
Subtotal	10

Fourth Term	Credit
OPTS 2366 Practicum (or Field Experience) - Opticianry/ Ophthalmic Dispensing Optician.....	3
Subtotal	3

Certificate of Technology Total	34
Capstone Experience: OPTS 2366	

Eye Care Technology (3EYE)

Associate of Applied Science Degree

Central Campus

First Term	Credit
OPTS 1471 Anatomy and Physiology for Eye Care Technology	4
OPTS 1311 Visual System	3
OPTS 2441 Ophthalmic Techniques	4
OPTS 1191 Special Topics In Opticianry/ Dispensing Optician	1
HPRS 1106 Essentials of Medical Terminology	1
ENGL 1301 Composition I.....	3
Subtotal	16

Second Term	Credit
OPTS 1501 Ophthalmic Dispensing	5
OPTS 1315 Basic Contact Lens.....	3
HPRS 2200 Pharmacology for Health Professions	2
OPTS 1266 Practicum (Field Experience) - Opticianry/ Ophthalmic Dispensing/Optician.....	2
PHED Activity.....	1
Subtotal	13

PostY1Summer	Credit
OPTS 1166 Practicum (or Field Experience) - Opticianry/ Ophthalmic Dispensing Optician.....	1
HPRS 1105 Medical Law and Ethics for Health Professionals.....	1
POFM 1327 Medical Insurance	3
OPTS 2350 Ophthalmic Surgical Techniques	3
Subtotal	8

Third Term	Credit
OPTS 2445 Advanced Ophthalmic Techniques	4
OPTS 1392 Special Topics In Optical Technician Assistant	3
OPTS 2266 Practicum (or Field Experience) - Opticianry/ Ophthalmic Dispensing Optician.....	2
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or Higher.....	3
PHED Activity.....	1
Subtotal	13

Fourth Term	Credit
OPTS 2431 Advanced Ophthalmic Dispensing	4
OPTS 2366 Practicum (or Field Experience) Opticianry/ Ophthalmic Dispensing Optician.....	3
*Humanities or Fine Arts.....	3
Speech.....	3
PSYC 2301 General Psychology.....	3
Subtotal	16

Associate of Applied Science Degree Total **66**

Capstone Experience: OPTS 2366

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

Optician Preparatory (6EYE-PREP)

Occupational Certificate

Central Campus

First Term	Credit
OPTS 1501 Ophthalmic Dispense	5
OPTS 1309 Ophthalmic Laboratory I.....	3
Subtotal	8

Second Term	Credit
OPTS 2431 Advanced Ophthalmic Dispensing	4
OPTS 1167 Practicum (or Field Experience) Opticianry/ Ophthalmic Dispensing Optician.....	1
Subtotal	5

PostY1Summer	Credit
OPTS 1267 Practicum (or Field Experience) - Opticianry/ Ophthalmic Dispensing Optician.....	2
Subtotal	2

Occupational Certificate Total **15**

Capstone Experience: OPTS 1267

Fire Protection Technology

Central Campus

The fire protection technology department of San Jacinto Community College District offers three different educational programs for aspiring firefighters and current firefighters.

For aspiring firefighters, the College offers the Firefighter Training Academy. The academy meets and exceeds all state requirements for paid/career firefighters. Students seeking entry-level firefighter positions should begin here. See below for further information regarding the Firefighter Training Academy.

For academy graduates and current firefighters, the College offers an Associate of Applied Science degree in firefighting. This program provides additional fire-related education and certification opportunities as well as courses in general education.

For academy graduates and current firefighters who wish to become paramedics, the College offers a paramedic option for the firefighting Associate of Applied Science.

Students in the fire protection technology program must be potentially eligible to participate in certification examinations for firefighters upon successful completion of the prescribed course work. An applicant who has been convicted of a felony, implicated in substance abuse, or involved in activities considered inappropriate by the Texas Commission on Fire Protection may be ineligible to participate in the certification examination. Such an applicant should contact the Texas Commission on Fire Protection in Austin, Texas, for guidance in petitioning the Commission for a decision of eligibility. A copy of the Commission's statement of eligibility should be submitted to San Jacinto Community College District's Fire Protection Technology chief training officer.

TECHNICAL PROGRAMS

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. Students who are not currently certified as an Emergency Medical Technician- Basic or higher will also need to complete the Emergency Medical Technician- Basic course. Please contact the Fire Protection Program at 281-476-1834 for further information.

FIRS 1301–Firefighter Certification I	3
FIRS 1407–Firefighter Certification II	4
FIRS 1313–Firefighter Certification III	3
FIRS 1319–Firefighter Certification IV	3
FIRS 1423–Firefighter Certification V	4
FIRS 1329–Firefighter Certification VI 3	3
FIRS 1433–Firefighter Certification VII	4
PHED Activity	1
PHED Activity	1
Firefighter Training Academy Total	26

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 (4FIREFTG)

Certificate of Technology

Central Campus

First Term

	Credit
FIRS 1301 Firefighter Certification I	3
FIRS 1407 Firefighter Certification II	4
FIRS 1313 Firefighter Certification III	3
FIRS 1319 Firefighter Certification IV	3
FIRS 1423 Firefighter Certification V	4
FIRS 1329 Firefighter Certification VI	3
FIRS 1433 Firefighter Certification VII	4
PHED 1119 PHED Activity	1
PHED 1119 PHED Activity	1

Subtotal	26
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Certificate of Technology Total	26
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Capstone Experience: Eligible for Credential Exam - Texas Commission on Fire Protection–Basic Fire Suppression

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:

FIRS 1301	FIRS 1313	FIRS 1319	FIRS 1329
FIRS 1407	FIRS 1423	FIRS 1433	

Prospective students must satisfy the general admission requirements of the College and provide satisfactory evidence of basic firefighter certification to the fire protection technology department chair and the registrar.

First Term	Credit
FIRS 1301 Firefighter Certification I	3
FIRS 1407 Firefighter Certification II	4
FIRS 1313 Firefighter Certification III	3
FIRS 1423 Firefighter Certification V	4
PHED Activity	1
Subtotal	15

Second Term	Credit
FIRS 1319 Firefighter Certification IV	3
FIRS 1329 Firefighter Certification VI	3
FIRS 1433 Firefighter Certification VII	4
PHED Activity	1
Subtotal	11

Third Term	Credit
ENGL 1301 Composition I	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra	3
*Humanities or Fine Arts	3
*Behavioral or Social Sciences	3
FIRT 1327 Building Construction for the Fire Service	3
Approved Elective	3
Subtotal	18

Fourth Term	Credit
ENGL 2311 Technical Report Writing	3
Speech	3
FIRT 2305 Fire Instructor I	3
Approved Elective	3
Approved Elective	3
Subtotal	15

PostY2Summer	Credit
FIRT 1319 Firefighter Health and Safety	3
Approved Elective	3
Subtotal	6
Associate of Applied Science Degree Total	65

Verification of Workplace Competencies: Eligible for Credential Exam - Texas Commission on Fire Protection–Basic Fire Suppression

**Courses that satisfy this requirement are listed in the Humanities and Fine Arts and Behavioral and Social Services sections of the Transfer Core Curriculum.*

Approved Electives			
FIRT 1303	FIRT 1309	FIRT 1315	FIRT 1338
FIRT 1349	FIRT 1345	FIRT 1370	FIRT 1408
FIRT 1440	FIRT 2309	FIRT 2331	FIRT 2333
FIRT 2345	FIRT 2351	FIRT 2370	

TECHNICAL PROGRAMS

Health Information Management

Health Information Management (3HITT-INF)

Associate of Applied Science Degree

North Campus

The associate degree program is designed to train health information management personnel to perform a variety of technical functions including organizing, analyzing, coding, and technically evaluating health information. Health information technicians work to ensure that complete and accurate records are kept for each patient in a health care facility. The program is accredited by the Commission on Accreditation for Health Information and Information Management (CAHIIM) in cooperation with the Council on Accreditation of the American Health Information Management Association. Students are eligible to apply to write the national exam for the RHIT after completion of the A.A.S. degree.

First Term	Credit
HITT 1305 Medical Terminology I	3
ENGL 1301 Composition I.....	3
HITT 1301 Health Data Content and Structure.....	3
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	3
ITSC 1309 Integrated Software Applications I	3
Subtotal	15
Second Term	Credit
HITT 1345 Health Care Delivery Systems.....	3
HITT 1374 Anatomy and Physiology	3
HITT 1341 Coding and Classification Systems	3
ENGL 2311 Technical Report Writing.....	3
HITT 1249 Pharmacology	2
HPRS 2301 Pathophysiology	3
Subtotal	17
PostY1Summer	Credit
*Humanities or Fine Arts.....	3
HITT 1353 Legal and Ethical Aspects of Health Information..	3
Subtotal	6
Third Term	Credit
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or **Natural Science	3
HITT 2360 Clinical - I: Health Information/Medical Records Technology/Technician.....	3
HITT 2335 Coding and Reimbursement Methods.....	3
HITT 2346 Advanced Medical Coding.....	3
HITT 1311 Health Information Systems.....	3
Subtotal	15

Fourth Term	Credit
HITT 2343 Quality Assessment and Performance Improvement.....	3
HITT 2361 Clinical - II: Health Information/Medical Records Technology/Technician.....	3
HITT 2339 Health Information Organization and Supervision.....	3
HITT 2249 RHIT Competency Review.....	2
PSYC 2301 General Psychology.....	3
Subtotal	14

Associate of Applied Science Degree Total 67
External Learning Experience: HITT 2360 and 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 Fine 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 (AHITT-CAN)

Advanced Technical Certificate

North Campus

First Term	Credit
HITT 1307 Cancer Data Management I.....	3
HITT 1301 Health Data Content and Structure.....	3
HITT 1305 Medical Terminology I	3
HPRS 2301 Pathophysiology	3
HITT 1249 Pharmacology	2
Subtotal	14
Second Term	Credit
HITT 1374 Anatomy and Physiology	3
HITT 2307 Cancer Data Management II	3
HITT 2370 Cancer Data Management III	3
Subtotal	9

PostY1Summer

HITT 1361 Clinical-Health Information/Medical Records Technology/Technician.....	3
Subtotal	3

Advanced Technical Certificate Total 26
External Work Experience: HITT 1361

Students must have earned at least an associate degree to be eligible for this certificate.

Cancer Data Management Specialty (3HITT-CAN)

Associate of Applied Science Degree

North Campus

First Term	Credit
HITT 1301 Health Data Content and Structure.....	3
ITSC 1309 Integrated Software Applications I	3
HITT 1305 Medical Terminology I	3
ENGL 1301 Composition I.....	3
Speech.....	3

Subtotal **15**

Second Term	Credit
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
HITT 1249 Pharmacology	2

Subtotal **17**

PostY1Summer	Credit
HITT 1353 Legal and Ethical Aspects of Health Information.....	3

Subtotal **3**

Third Term	Credit
HITT 1311 Health Information System.....	3
HITT 1307 Cancer Data Management I.....	3
PSYC 2301 General Psychology.....	3
**Math or Natural Science.....	3

Subtotal **12**

Fourth Term	Credit
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
*Humanities or Fine Arts.....	3

Subtotal **15**

PostY2Summer	Credit
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 Fine Arts and section of the Transfer Core Curriculum.*

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

Medical Billing and Coding (4HITT-MDBC)

Certificate of Technology

North Campus

First Term	Credit
HITT 1305 Medical Terminology I	3
HPRS 2301 Pathophysiology	3
HITT 1378 Medical Insurance.....	3
HITT 1301 Health Data Content and Structure.....	3
HITT 1249 Pharmacology	2

Subtotal **14**

Second Term	Credit
HITT 1341 Coding and Classification Systems	3
HITT 2346 Advanced Medical Coding.....	3
HITT 1353 Legal and Ethical Aspects of Health Information.....	3

Subtotal **9**

Third Term	Credit
HITT 1377 Clinical - Billing and Coding	3

Subtotal **3**

Certificate of Technology Total **26**

External Field Experience: HITT 1377

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.

TECHNICAL PROGRAMS

Medical Coding (4HITT-MDC)

Certificate of Technology

North Campus

First Term

Credit

HITT 1305 Medical Terminology	3
HITT 1301 Health Data Content and Structure.....	3
HITT 1374 Anatomy and Physiology	3
HPRS 2301 Pathophysiology	3
HITT 1341 Coding and Classification Systems	3
HITT 1249 Pharmacology	2

Subtotal **17**

Second Term

Credit

HITT 1345 Health Care Delivery Systems.....	3
ITSC 1309 Integrated Software Applications.....	3
HITT 2335 Coding and Reimbursement Methodologies.....	3
HITT 1353 Legal and Ethical Aspects of Health Information.....	3
HITT 2346 Advanced Medical Coding.....	3

Subtotal **15**

PostY1Summer

Credit

HITT 2245 Coding Certification Exam Review	2
HITT 1360 Clinical - Health Information/Medical Records Technology/Technician.....	3

Subtotal **5**

Certificate of Technology Total **37**

External Work Experience: HITT 1360

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.

Instrumentation Technology

Instrumentation technology training at San Jacinto Community College District falls into three categories: instrumentation installation, general instrument maintenance, and control systems technology.

Instrumentation technology is arguably the most technologically challenging field in industry today. Highly-trained instrument technicians 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.

Key facilities of the instrumentation technology program at San Jacinto Community College Central campus 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.

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, municipal water treatment facilities for cross-country pipeline companies, electrical powerplants, and in manufacturer field technician positions.

Instrumentation Analyzer (MINST)

TECHNICAL PROGRAMS

Marketable Skills Achievement Award

Central Campus

First Term	Credit
SCIT 1414 Applied General Chemistry I	4
INTC 1375 Sample Systems.....	3
INTC 1348 Analytical Instrumentation.....	3
Subtotal	10

Marketable Skills Achievement Award Total 10

Instrumentation Technology (EINST)

Enhanced Skills Certificate

Central Campus

First Term	Credit
INTC 1341 Principles of Automatic Control.....	3
INTC 2359 Distributed Control Systems.....	3
Subtotal	6

Enhanced Skills Certificate Total 6

Instrumentation Technology (4INST)

Certificate of Technology

Central Campus

First Term	Credit
INCR 1302 Physics of Instrumentation	3
CETT 1302 Electricity Principles	3
ENER 1330 Basic Mechanical Skills for Energy	3
ENER 1270 Employee Success in Energy Industry.....	2
INTC 1322 Analog Controls I.....	3
Subtotal	14

Second Term

Credit	
INTC 2310 Principles of Industrial Measurements II.....	3
OSHT 1320 Energy Industrial Safety.....	3
TECM 1301 Industrial Mathematics.....	3
INTC 1353 Analog Controls II	3
INTC 1315 Final Control Elements.....	3
Subtotal	15

PostY1Summer

Credit	
INTC 1350 Digital Measurement and Controls	3
INTC 1355 Unit Operations	3
INTC 2333 Instrumentation Systems Installation.....	3
Subtotal	9

Certificate of Technology Total 38

Capstone Experience: INTC 2333; Verification of workplace competencies

Instrumentation Technology (5INST)

Level II Certificate of Technology

Central Campus

First Term	Credit
INCR 1302 Physics of Instrumentation	3
CETT 1302 Electricity Principles	3
ENER 1330 Basic Mechanical Skills for Energy	3
ENER 1270 Employee Success in Energy Industry.....	2
INTC 1322 Analog Controls I.....	3
Subtotal	14

Second Term

Credit	
INTC 2310 Principles of Industrial Measurements II.....	3
OSHT 1320 Energy Industrial Safety.....	3
*TECM 1301 Industrial Mathematics	3
INTC 1353 Analog Controls II	3
INTC 1315 Final Control Elements	3
Subtotal	15

PostY1Summer

Credit	
INTC 1350 Digital Measurement & Controls	3
INTC 1355 Unit Operations	3
Subtotal	6

Third Term

Credit	
INTC 2333 Instrumentation Systems Installation.....	3
ETWR 1302 Introduction to Technical Writing	3
INTC 2330 Instrumentation Troubleshooting	3
INTC 2388 Internship-Instrumentation Technology or INTC 2339 Instrument and Control Review	
INTC 2336 Distributed Control and Programmable Logic.....	3
Subtotal	12

Level II Certificate of Technology Total 50
Capstone Experience: INTC 2388 or INTC 2339; Verification of workplace competencies.

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

TECHNICAL PROGRAMS

TECHNICAL PROGRAMS

Instrumentation Technology (3INST)

Associate of Applied Science Degree

Central Campus

First Term	Credit
INCR 1302 Physics of Instrumentation	3
CETT 1302 Electricity Principles	3
ENER 1330 Basic Mechanical Skills for Energy	3
ENER 1270 Employee Success in Energy Industry.....	2
Speech.....	3
Subtotal	14

Second Term	Credit
INTC 1322 Analog Controls I.....	3
INTC 2310 Principles of Industrial Measurements II.....	3
OSHT 1320 Energy Industrial Safety.....	3
*TECM 1301 Industrial Mathematics	3
**Humanities or Fine Arts.....	3
Subtotal	15

PostY1Summer	Credit
INTC 1350 Digital Measurement and Controls	3
INTC 1355 Unit Operations	3
Subtotal	6

Third Term	Credit
INTC 1315 Final Control Elements	3
INTC 1353 Analog Controls II	3
INTC 2333 Instrumentation Systems Installation.....	3
ETWR 1302 Introduction to Technical Writing	3
**Behavioral or Social Sciences.....	3
Subtotal	15

Fourth Term	Credit
INTC 2330 Instrumentation Systems Troubleshooting.....	3
INTC 2388 Internship Instrumentation Technology or INTC 2339 Instrument and Control Review	3
INTC 2336 Distributed Controls and Programmable Logic.....	3
CHEM 1405 Introductory Chemistry I	4
ENGL 1301 Composition I.....	3
Subtotal	13

Associate of Applied Science Degree Total 66

Capstone Experience: INTC 2388 or INTC 2339; Verification of workplace competencies

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

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

Instrumentation Technology (4INST-ECFC)

Energy Career Foundation Core (CFC) Certificate of Technology

Central Campus

First Term	Credit
INCR 1302 Physics of Instrumentation	3
CETT 1302 Electricity Principles	3
ENER 1330 Basic Mechanical Skills for Energy	3
ENER 1270 Employee Success in Energy Industry.....	2
Speech.....	3
Subtotal	14

Second Term	Credit
OSHT 1320 Energy Industrial Safety.....	3
*TECM 1301 Industrial Mathematics	3
**Humanities and Fine Arts	3
ETWR 1302 Introduction to Technical Writing	3
**Behavioral/Social Sciences.....	3
Subtotal	15

PostY1Summer	Credit
CHEM 1405 Introductory Chemistry I	4
ENGL 1301 Composition I.....	3
Subtotal	7

Energy Career Foundation Core Certificate of Technology Total 36

Capstone Experience: OSHT 1320

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

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

Instrumentation-Analytical (6INST-ANLY)

Occupational Certificate

Central Campus

First Term	Credit
SCIT 1414 Applied General Chemistry I	4
INTC 1375 Sample Systems.....	3
INTC 1348 Analytical Instrumentation.....	3
Subtotal	10

Second Term	Credit
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

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 spaces, prepare presentations, and learn business procedures used by interior designers.

The course work for the associates of applied science degree is offered over a five semester period, which includes one summer term. The curriculum provides a balance of technical, creative, and business training necessary for a career in interior design. Upon completion of the associates of applied science degree the student may continue their education by seeking the 12-credit hour Enhanced Skills Certificate.

Note: Students who begin their interior design education after Sept. 1, 2006 will not be allowed by Texas Board of Architectural Examiners to register with the State of Texas to become licensed unless they graduate from a four-year program that is approved by Council for Interior Design Accreditation (CIDA). However, a student graduating from a two-year institution can apply for certification by NCIDQ (National Council for Interior Design Qualifications) to be NCIDQ certified with a two year degree and 5280 hours of qualified interior design coursework. Please see NCIDQ's website for details www.ncidq.org.

Interior Design (MINTD)

Marketable Skills Achievement Award Central Campus

The Interior Decorator Marketable Skills Achievement Award is an entry level certificate for those students seeking a minimum amount of education in the field of interior design/decoration. The three classes required for this certificate expose the student to the Elements and Principles of Interior Design, the History of Interior Design from Ancient Egypt through the Renaissance, and the fundamentals of textile production and their applications as they apply to interior design.

This certificate would allow the recipient the opportunity to work as a design assistant or to obtain employment in a fabric showroom.

First Term	Credit
INDS 1411 Fundamentals Interior Design	4
INDS 1451 History of Interiors I	4
INDS 2407 Textiles for Interior Design	4
Subtotal	12
Marketable Skills Achievement Award Total	12
Capstone Experience: INDS 2407	

Interior Design(EINT-DSGN)

Enhanced Skills Certificate

Central Campus

The interior design A.A.S. degree and the following courses are required for the Interior Design Enhanced Skills Certificate. This certificate is a post-professional certificate that allows the student to broaden their knowledge base by studying the fundamentals of lighting, interior design related computer programs, and portfolio development.

First Term	Credit
INDS 2315 Lighting for Interior Designer	3
INDS 2405 Interior Design Graphics	4
Subtotal	7
Second Term	Credit
INDS 2387 Internship - Interior Design.....	3
INDS 2237 Portfolio Presentation.....	2
Subtotal	5
Enhanced Skills Certificate Total	12
Capstone: INDS 2405	

Interior Design (4INTD-DSGN)

Certificate of Technology

Central Campus

First Term	Credit
INDS 1411 Fundamentals Interior Design	4
INDS 1451 History of Interiors I	4
INDS 2407 Textiles for Interior Design	4
INDS 1415 Materials, Methods and Estimating	4
Subtotal	16
Second Term	Credit
INDS 1449 Fundamentals of Space Planning	4
INDS 1452 History of Interiors II	4
INDS 2421 Presentation Drawing	4
INDS 2425 Professional Practices for Interior Design	4
Subtotal	16
Third Term	Credit
DFTG 1409 Basic computer-Aided Drafting	4
INDS 2413 Residential Design I	4
INDS 1445 Commercial Design I	4
Subtotal	12
Certificate of Technology Total	44
Capstone Experience: INDS 2413	

TECHNICAL PROGRAMS

Interior Design (3INT-DSGN)

Associate of Applied Science Degree

Central Campus

First Term	Credit
INDS 1411 Fundamentals Interior Design	4
INDS 1451 History of Interiors I	4
INDS 2407 Textiles for Interior Design	4
ENGL 1301 Composition I.....	3
Subtotal	15

Second Term	Credit
INDS 1449 Fundamentals of Space Planning	4
INDS 1452 History of Interiors II	4
INDS 2421 Presentation Drawing	4
DFTG 1409 Basic Computer-Aided Drafting	4
Subtotal	16

Third Term	Credit
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra.....	3
SPCH 1315 Public Speaking or 1321 Business and Professional Speech.....	3
Subtotal	6

Fourth Term	Credit
INDS 1415 Materials Methods and Estimating	4
INDS 2413 Residential Design I	4
INDS 1445 Commercial Design I	4
*Behavioral or Social Sciences.....	3
Subtotal	15

Fifth Term	Credit
INDS 2425 Professional Practices for Interior Design	4
INDS 2435 Residential Design II	4
INDS 2386 Internship - Interior Design.....	3
*Humanities or Fine Arts.....	3
Subtotal	14

Associate of Applied Science Degree Total 66

Capstone Experience: INDS 2386

* Courses which satisfy this requirement are listed in the Humanities and Fine 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.

Interior Decorator II (6INT-DDII)

Occupational Certificate

Central Campus

This certificate coupled with the INTERIOR DECORATOR MARKETABLE SKILLS ACHIEVEMENT AWARD (MINTD) 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.

First Term	Credit
INDS 1449 Fundamentals of Space Planning	4
INDS 1452 History of Interiors II	4
INDS 2421 Presentation Drawing	4
DFTG 1409 Basic Computer-Aided Drafting	4
Subtotal	16

Occupational Certificate 16

Capstone: INDS 2421

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 management processes, governmental controls, licensing of products, import and export documentation, customs regulations, and political-legal factors in the foreign trade environment. Topics also include international purchasing and sourcing; international marketing strategies; international monetary systems and financial institutions; international and domestic transportation; cross-cultural management and communication processes and cultural geographic distinctions that affect individual, group, and organizational behavior.

TECHNICAL PROGRAMS

International Business and Logistics (MINTL-LOG)

Marketable Skills Achievement Award

North Campus

First Term	Credit
IBUS 1300 Global Logistics Management.....	3
IBUS 1305 Introduction to International Business and Trade	3
IBUS 1354 International Marketing Management.....	3
HMSY 1337 Introduction to Homeland Security.....	3
Subtotal	12

Marketable Skills Achievement Award Total 12

International Business and Logistics (6INTL-LOG)

Occupational Certificate

North Campus

First Term	Credit
IBUS 1300 Global Logistics Management.....	3
IBUS 1305 Introduction to International Business and Trade	3
IBUS 1354 International Marketing.....	3
HMSY 1337 Introduction to Homeland Security.....	3
IBUS 2345 Import Customs Regulations	3
Subtotal	15

Second Term

Second Term	Credit
IBUS 2366 Practicum (or Field Experience) - International Business/Trade/Commerce	3
Subtotal	3

Occupational Certificate Total 18

Capstone Experience: IBUS 2366

International Business and Logistics (4INTL-LOG)

Certificate of Technology

North Campus

First Term	Credit
IBUS 1300 Global Logistics Management.....	3
IBUS 1305 Introduction to International Business and Trade	3
IBUS 1354 International Marketing Management.....	3
HMSY 1337 Introduction to Homeland Security.....	3
IBUS 2345 Import Customs Regulations	3
Subtotal	15

Second Term

Second Term	Credit
IBUS 1301 Principles of Exports.....	3
IBUS 1302 Principles of Imports.....	3
IBUS 1341 Global Supply Chain Management	3
IBUS 2366 Field Experience - International Business/Trade/ Commerce	3
Subtotal	12

PostY1Summer

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

Certificate of Technology Total 30

External Learning Experience: IBUS 2367

International Business and Logistics (3INTL-LOG)

Associate of Applied Science Degree

North Campus

First Term	Credit
IBUS 1300 Global Logistics Management.....	3
IBUS 1305 Introduction to International Business and Trade.	3
IBUS 1354 International Marketing Management.....	3
HMSY 1337 Introduction to Homeland Security.....	3
IBUS 2345 Import Customs Regulations.....	3
Subtotal	15

Second Term

Second Term	Credit
IBUS 1301 Principles of Exports.....	3
IBUS 1302 Principles of Imports.....	3
IBUS 1341 Global Supply Chain Management	3
IBUS 2366 Practicum (or Field Experience) - International Business/Trade/Commerce	3
Subtotal	12

PostY1Summer

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

Third Term

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

Subtotal 15

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
SPCH 1321 Business and Professional Speech.....	3
*Humanities or Fine Arts.....	3
HRPO 1311 Human Relations.....	3

Subtotal 15

Associate of Applied Science Degree Total 60

External Work Experience: IBUS 2367

** Courses which satisfy this requirement are listed in the Humanities and Fine Arts section of the transfer Core Curriculum.*

TECHNICAL PROGRAMS

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
Subtotal	16

Occupational Certificate Total 16

Capstone Experience: LMGT 1345

Maritime and Logistics Specialty (4INTL-MAR)

Certificate of Technology

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
Subtotal	16

Second Term

Second Term	Credit
HMSY 1337 Introduction to Homeland Security.....	3
IBUS 1300 Global Logistics Management.....	3
IBUS 1341 Global Supply Chain Management	3
LMGT 1325 Warehouse and Distribution Center Management.....	3
Subtotal	12

PostY1Summer

PostY1Summer	Credit
IBUS 2345 Import Customs Regulations	3
IBUS 2367 Practicum (or Field Experience) - International Business/Trade/Commerce	3
Subtotal	6

Certificate of Technology Total 34

External Field Experience: IBUS 2367

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

Associate of Applied Science Degree

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
Subtotal	16

Second Term

Second Term	Credit
HMSY 1337 Introduction to Homeland Security.....	3
IBUS 1300 Global Logistics Management.....	3
IBUS 1341 Global Supply Chain Management	3
LMGT 1325 Warehouse and Distribution Center Management	3
Subtotal	12

PostY1Summer

PostY1Summer	Credit
IBUS 2345 Import Customs Regulations	3
IBUS 2367 Practicum (or Field Experience) - International Business/Trade/Commerce	3
Subtotal	6

Third Term

Third Term	Credit
MATH 1314 College Algebra or MATH 1333 Contemporary Math for Technical Programs3	
ENGL 1301 Composition I.....	3
SOCI 1301 Introduction to Sociology.....	3
BCIS 1305 Business Computer Applications.....	3
GEOG 1303 World Regional Geography.....	3
Subtotal	15

Fourth Term

Fourth Term	Credit
ACNT 1303 Introduction to Accounting I or ACCT 2301 Accounting Principles I	3
ENGL 1302 Composition II or ENGL 2311 Technical Report Writing	3
SPCH 1321 Business and Professional Speech.....	3
**Humanities or Fine Arts.....	3
Subtotal	12

Associate of Applied Science Degree Total 61

External Field Experience: IBUS 2367

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

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

Law Enforcement

See *Criminal Justice*

Legal Assistant

See *Paralegal*

Long Term Care Administration

Long term care is a rapidly growing field with increasing demand for licensed administrators. As the population ages, the need for quality long term care increases and employment opportunities are expected to grow at a faster rate than many other areas of management. As health care takes on a more businesslike approach, think of names such as “Health Management Organization” or “Managed Care Facility” - business degrees have become a professional necessity. Business oriented reforms in patient care handle the new demands of increased costs, human resource logistics, diverse economic considerations for patients, and insurance regulations. The Certificate of Technology in Long Term Care Administration program will help one develop the leadership and critical thinking skills to succeed in this unique business environment, while also focusing on the practical aspects of managed care.

The Certificate of Technology in Long Term Care Administration program offered by San Jacinto College at the Central Campus is designed to offer the courses and internship hours required to apply and take the state licensing exam required by the State of Texas to become a nursing home administrator. Questions regarding licensure and state exam requirements should be directed to the Texas Department of Aging and Disability Services (DADS) at 512-438-2015 or ww.dads.state.tx.us.

The Certificate of Technology in Long Term Care Administration program is open to anyone who has already completed a Bachelor’s degree.

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

Maritime

All U.S. seamen are certified, documented and licensed by the U.S. Coast Guard. Maritime Technology is a semester credit hour program, which provides the students with U.S. Coast Guard approved instruction to be capable, knowledgeable mariner. The program consists of level one certificates, which provide the instruction and some actual experience as an able bodied seamen or competent mariners. The level two certificate combines the able bodied seaman and competent mariner training while the associate of applied science degree maximizes the number of maritime courses the student can enroll in and includes general academic courses. Maritime Technology (3MARITIME) Associate of Applied Science Central Campus

Maritime Technology (3MARITIME)

First Term	Credit s
NAUT 1270 Deck Familiarization	2
NAUT 1173 Crowd and Crisis Management	1
NAUT 1171 Medical Care Provider	1
NAUT 1277 Basic Safety Training	2
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I	3
PHED 1142 Fitness Swimming or PHED 1105 Beginning and Intermediate Swimming	1
ENGL 1301 Composition I	3
Subtotal	13
Second Term	Credit
NAUT 1279 Tank Ship Familiarization	2
NAUT 1273 Engineering Familiarization	2
NAUT 1177 Navigational Watch	1
NAUT 2174 Proficiency in Survival Craft	1
NAUT 1275 Able Bodied Seaman	2
Math 1333 Contemporary Math for Technical Programs or 1314 College Algebra or higher	3
NAUT 2364 Practicum	3
Subtotal	14
Third Term	Credit
NAUT 1471 Introduction to Ships and Shipping	4
*Humanities and Fine Arts	3
NAUT 2276 Tankerman Person In Charge	2
NAUT 2470 Master 100 GRT	4
NAUT 2471 Terrestrial and Coastal Navigation	4
Subtotal	17

TECHNICAL PROGRAMS

Fourth Term	Credit
NAUT 2365 Practicum	3
NAUT 2170 Upgrade Master 100 GRT to Master 200 GRT	1
NAUT 2171 Upgrade to Apprentice Mate	1
NAUT 2270 Basic Shiphandling and Steering Control Systems	2
NAUT 2172 Emergency Procedures	1
NAUT 1172 Vessel Security Officer	1
NAUT 2272 Radar Observer Unlimited	2
ENGL 2311 Technical Report Writing	3
*Behavioral and Social Sciences	3
Subtotal	17

Associate of Applied Science Degree Total **61**

Capstone Experience: NAUT 2365

*Courses which satisfy this requirement are listed in the Humanities and Fine Arts, and the Behavioral and Social Sciences sections of the Transfer Core Curriculum.

Able Bodied Seaman (4MAR-ABSM)

Certificate of Technology

Central Campus

First Term	Credit
NAUT 1270 Deck Familiarization.....	2
NAUT 1173 Crowd and Crisis Management.....	1
NAUT 1171 Medical Care Provider	1
NAUT 1277 Basic Safety Training	2
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I.....	3
PHED 1142 Fitness Swimming or PHED 1105 Beginning and Intermediate Swimming.....	1
ENGL 1301 Composition I.....	3
Subtotal	13

Second Term	Credit
NAUT 1279 Tank Ship Familiarization.....	2
NAUT 1273 Engineering Familiarization	2
NAUT 1177 Navigational Watch	1
NAUT 2174 Proficiency in Survival Craft	1
NAUT 1275 Able Bodied Seaman	2
Math 1333 Contemporary Math for Technical Programs or MATH 1314 College Algebra or higher.....	3
Subtotal	11

Third Term	Credit
NAUT 2364 Practicum.....	3
Subtotal	3

Certificate of Technology Total	27
Capstone Experience: NAUT 2364	

Competent Mariner (4MAR-CMRNR)

Certificate Of Technology

Central Campus

First Term	Credit
NAUT 1471 Introduction to Ships and Shipping	4
NAUT 2276 Tankerman Person In Charge.....	2
NAUT 2470 Master 100 GRT	4
NAUT 2471 Terrestrial and Coastal Navigation	4
Subtotal	14

Second Term **Credit**

NAUT 2365 Practicum.....	3
NAUT 2170 Upgrade Master 100 GRT to Master 200 GRT	1
NAUT 2171 Upgrade to Apprentice Mate.....	1
NAUT 2270 Basic Shiphandling and Steering Control Systems.....	2
NAUT 2172 Emergency Procedures.....	1
NAUT 1172 Vessel Security Officer	1
NAUT 2272 Radar Observer Unlimited	2
ENGL 1301 Composition I.....	3
Subtotal	14

Certificate of Technology Total **28**

Capstone Experience: NAUT 2365

Professional Mariner (5MAR-PMRNR)

Level II Certificate Of Technology

Central Campus

First Term	Credit
NAUT 1270 Deck Familiarization.....	2
NAUT 1173 Crowd and Crisis Management.....	1
NAUT 1171 Medical Care Provider	1
NAUT 1277 Basic Safety Training	2
PHED 1105 Beginning & Intermediate Swimming	1
NAUT 1279 Tank Ship Familiarization.....	2
NAUT 1273 Engineering Familiarization	2
NAUT 2174 Proficiency in Survival Craft	1
NAUT 1177 Navigational Watch	1
Subtotal	13

Second Term **Credit**

NAUT 1275 Able Bodied Seaman	2
NAUT 2364 Practicum.....	3
NAUT 1471 Introduction to Ships and Shipping	4
NAUT 2470 Master 100 GRT	4
NAUT 2471 Terrestrial and Coastal Navigation	4
Subtotal	17

Third Term	Credit
NAUT 2270 Basic Shiphandling & Steering	
Control Systems.....	2
NAUT 2276 Tankerman Person in Charge Barge	2
NAUT 2172 Emergency Procedures.....	1
NAUT 1172 Vessel Security Officer.....	1
NAUT 2170 Upgrade Master 100GRT to Master 200GRT	1
NAUT 2171 Upgrade to Apprentice Mate.....	1
NAUT 2272 Radar Observer Unlimited	2
NAUT 2365 Practicum.....	3
Subtotal	13

Level II Certificate of Technology Total **43**
Capstone Experience: NAUT 2365

All U.S. seamen are certified, documented and licensed by the U.S. Coast Guard. Maritime Technology is a semester credit hour program, which provides the students with U.S. Coast Guard approved instruction to be a capable, knowledgeable mariner. The program consists of level one certificates, which provide the instruction and some actual experience as an able bodied seamen or competent mariner. The level two certificate combines the able bodied seaman and competent mariner training while the associate of applied science degree maximizes the number of maritime courses the student can enroll in and includes general academic courses. Maritime Technology (3Maritime) Associate of Applied Science Central Campus

Maritime Dual Credit Career Interest
(6MAR-DCCI)

Occupational Certificate	
Central Campus	
First Term	Credit
NAUT 1270 Deck Familiarization.....	2
IBUS 1300 Global Logistics Management.....	3
Subtotal	5
Second Term	Credit
NAUT 1273 Engineering Familiarization	2
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I.....	3
Subtotal	5
Third Term	Credit
NAUT 1279 Tank Ship Familiarization.....	2
NAUT 1277 Basic Safety Training	2
Subtotal	4
Fourth Term	Credit
NAUT 2174 Proficiency in Survival Craft	1
NAUT 1275 Able Bodied Seaman	2
Subtotal	3
Occupational Certificate Total	17
Capstone Experience: NAUT 1275	

Massage Therapy

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 national licensing exams 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**
Verification of workplace competencies: Credentialing Exam: Eligible for Federation of State Massage Therapy Boards - Massage and Bodywork Licensing Examination (MBLEx)

TECHNICAL PROGRAMS

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. Upon completion of the medical assisting program, the student is granted a certificate of technology, is eligible to sit for the AAMA Certification Examination and earn the AAMA credential of Certified Medical Assistant (CMA-AAMA).

The San Jacinto College Medical Assisting Program is accredited by:

The commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of Medical Assisting Education Review Board (MAERB).

Commison on Accreditation of Allied Health Education Programs
1361 Park Street
Clearwater, FL 33756
727-210-2350
www.caahep.org

First Term	Credit
HPRS 1106 Essentials of 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 & Ethnics	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

PostY1Summer	Credit
MDCA 1254 Certified Medical Assistant Exam Review	2
MDCA 1560 Clinical	5
Subtotal	7

Certificate of Technology Total **39**

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

Medical imaging technology consists of two associate of applied sciences degrees and three certificate programs. The degree programs are the medical radiography program and the diagnostic medical sonography program. The certificate programs are the computed tomography program, the magnetic resonance imaging program, and the mammography program. Students selected for any of the Medical Imaging programs are required to submit physical exams prior to admission. Physical exam must be consistent with the requirements of the teaching hospitals and agencies the students are assigned during clinical assignments and the performance standards required to function as student imaging technologists. The exam will also include documentation of any communicable diseases along with immunity to Rubella, Measles, Mumps, and Varicella. Completion of the Hepatitis B series along with updated Tetanus, an annual TB screening and flu vaccine is required. In addition to meeting all other requirements, students entering a medical imaging program will be required to submit a criminal background check and drug screening completed by designated companies and show proof of CPR (American Heart Associate- Health Care Provider) certification. All results of the criminal background check and drug screen must be sent to San Jacinto College Medical Imaging Department to the Chair by the agency at dianne.phillips@sjcd.edu by the designated deadline. All the stated requirements must be submitted with each application submission.

Medical Radiography

Purpose Statement:

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

The program curriculum is a balance of general education and technical courses, as well as supervised clinical/practicum experience at local hospitals and clinics. The radiography courses utilize both theory and competency-based educational components designed to prepare the student to become a radiologic technologist specializing in radiography. A radiographer utilizes radiation to produce images of anatomical structures in the body.

Upon completion of the medical radiography program the student is granted an associate of applied science degree, is eligible to apply for the certification examination given by the American Registry of Radiologic Technologists (ARRT), and may obtain a license from the Texas Department of State Health Services.

The medical radiography program at San Jacinto College is accredited by:

Joint Review Committee on Education in Radiologic Technology (JRCERT)

20 N. Wacker Drive Suite 2850

Chicago, Illinois 60606

Phone: 312-704-5300

Email: mail@jrcert.org

Web: www.jrcert.org

The program effectiveness goals of the medical radiography program are as follows:

1. Graduates will pass the national certification examination on the 1st attempt.
2. Graduates will be gainfully employed.
3. Students will complete the program within two years of acceptance.
4. Employers will be satisfied with program graduates.
5. Graduates will be satisfied with the quality of their education received.

Student Goals and Student Learning Outcomes

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

1. Students will be clinically competent.
2. Students will possess critical thinking skills.
3. Students will communicate effectively.
4. Students will demonstrate professionalism.

The student learning outcomes for the medical radiography program are as follows:

1. Students will demonstrate appropriate patient care.
2. Students will accurately adjust technical factors for radiographic examinations.
3. Students will properly position patients for radiographic examinations.
4. Students will demonstrate proper radiation safety.
5. Students will demonstrate ability to modify imaging examinations for non-routine patients.
6. Students will critique images for diagnostic quality.
7. Students will demonstrate effective oral communication skills.
8. Students will demonstrate effective written communication skills.
9. Students will demonstrate ethical behavior.
10. Students will demonstrate professional behavior.

Program Admission Criteria

This is a selective admission program. A limited number of students are admitted into the program bi-annually. Class size is determined by the availability of clinical space. Limited enrollment ensures a quality laboratory and clinical experience needed to become a competent entry level radiographer. To be considered for selection to the Medical Radiography Program the following steps must be completed:

1. Be admitted to San Jacinto College. Visit our website at <http://www.sanjac.edu/appl>.
2. Provide Official Transcripts
 - A. High School Diploma or GED Certificate required.
 - B. Students with any transfer credits MUST have college transcripts analyzed by San Jacinto College (enrollment services transcript evaluation) prior to submitting an application.
 - C. Medical imaging department chair has final approval of all transferred courses that apply toward the degree in Medical Radiography.
 - D. Transcripts from other colleges must be official and sent to:
 - a) Office of Enrollment Services and b) Medical Radiography Office
3. Completion of all of the following prerequisite courses with a minimum of a "C" before admission to the program.
 - BIOL 2401 Anatomy & Physiology I
 - BIOL 2402 Anatomy & Physiology II
 - ENGL 1301 Composition I
 - RADR 1201 Introduction to Radiography

TECHNICAL PROGRAMS

- MATH 1314 College Algebra or 1333 Contemporary Mathematics for Technical Programs

Any of the following support courses requires a minimum of a “C” also and if not achieved the course must be retaken until successful.

- Speech 1315 Public Speaking or 1318 Interpersonal Communications
- Behavioral or S. Science
- Humanities or Fine Arts

Academic science courses must not have been completed earlier than five (5) years prior to program acceptance. RADR 1201 must be complete no more than three (3) years prior to a student’s entry into the medical radiography program. If either of these time requirements are exceeded the student must retake the course successful with a minimum grade of “C”. Higher level math such as Calculus may be evaluated for possible substitution if a student was placed out of college algebra. A higher level English course may be evaluated for possible substitution if a student has placed into a higher level English. Substitutions must be approved by the department chair and dean of health sciences.

4. Completion of the program required entrance examination (HESI HP A2). The original score sheet indicating a score of 70% or higher on each required section must be submitted with application.

5. Computer Literacy

Students must be deemed computer literate before being accepted into the medical radiography program by either completing the Computer Literacy Skills Test at SJC or by successfully completing ITSC 1309 or BCIS 1305. To schedule the computer literacy test please contact Computer Information Technology at 281-476-1501 ext. 1509 or contact the medical imaging department by calling 281-476-1871 for more details.

6. Attend a MANDATORY information meeting as posted on the San Jacinto College website at <http://www.sanjac.edu/areas-study#medical-imaging> or by calling 281-476-1871 for dates.
7. Receive and complete a medical imaging application by deadline of June 1 or October 15. Complete questionnaire concerning interest in the program/profession completed at the Information Session.

Selection Criteria

1. Students who apply for admission to the medical radiography program will be selected based on the total score on the application rubric to include both GPA and HESI HPA2 entrance examination scores. Meeting minimal entry requirements does not guarantee program admission.

Application Periods

The medical radiography program accepts applicant twice a year. Application periods are April 1 through June 1, for fall admission; and September 1 through October 15, for spring admission.

Applicants will be notified regarding their selection for admission into the medical radiography program. Applicants not selected for admission must re-apply to be considered for future admission. Applicants who are selected for admission into the medical radiography program, but do not accept the position or do not complete the enrollment process must also re-apply. It is the student’s responsibility to stay current with any changes in program requirements.

Transfer Students:

Course work from another radiography program will be evaluated on an individual basis by the department chair and the Admission Appeals Committee. A grade of “C” or better is required on all transferred prerequisite, general education, and program specific courses. The student requesting transfer must submit a request by the Medical Radiography Admission Appeals Committee and be granted an interview. Transfer students from another program will be admitted on a space-available basis.

Student Progression:

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.

Medical Radiography (3MED-RAD)

Associate of Applied Science Degree

Central Campus

Pre-requisite	Credit
BIOL 2401 Human Anatomy and Physiology I	4
BIOL 2402 Human Anatomy and Physiology II	4
ENGL 1301 Composition I.....	3
RADR 1201 Introduction to Radiography.....	2
MATH 1333 Contemporary Mathematics or	
MATH 1314 College Algebra	3
Subtotal	16

First Term	Credit
RADR 1311 Basic Radiographic Procedures.....	3
RADR 2209 Radiographic Imaging Equipment	2
RADR 1202 Radiographic Image Evaluation I	2
RADR 1203 Patient Care	2
RADR 1166 Practicum I.....	1
Subtotal	10

Second Term	Credit
RADR 1250 Radiographic Image Evaluation II	2
Speech.....	3
RADR 2301 Intermediate Radiographic Procedures.....	3
RADR 1213 Principles of Imaging I.....	2
RADR 1266 Practicum II.....	2
Subtotal	12
PostY1Summer	Credit
RADR 2305 Principles of Radiographic Imaging II.....	3
RADR 2331 Advanced Radiographic Procedures.....	3
RADR 1267 Practicum III.....	2
RADR 2236 Special Patient Applications.....	2
Subtotal	10
Third Term	Credit
RADR 2233 Advanced Medical Imaging	2
*Behavioral or Social Science.....	3
RADR 2313 Radiation Biology and Protection	3
RADR 2266 Practicum IV.....	2
Subtotal	10
Fourth Term	Credit
RADR 2267 Practicum V	2
*Humanities or Fine Arts.....	3
RADR 2335 Radiologic Technology Seminar	3
RADR 2217 Radiographic Pathology	2
Subtotal	10
Associate of Applied Science Degree Total	68
Capstone Experience: Eligible for American Registry of Radiologic Technologists National Certification Exam.	

**Courses which satisfy the Humanities/Fine Arts and Behavioral/Social Sciences are listed in these sections in the Transfer Core Curriculum section of the catalog.*

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 diagnostic medical program the student is granted an associate of applied science degree and is eligible to apply to take exams for the American Registry of Diagnostic medical Sonographers (ARDMS) and/or the American Registry of Radiologic Technologists (ARRT).

Diagnostic Medical Sonography Program Goals:

1. Graduates will be clinically competent sonographers.
2. Graduates will be eligible to apply for, take and pass the American Registry of Diagnostic Medical Sonography certification exams upon completion of the program.

3. Graduates will be able to find employment.
4. Graduates will be satisfied with their education.
5. Employers will be satisfied with program graduates.

Admission Criteria:

A limited number of students are admitted into the program annually. Class size is determined by the availability of clinical space. A two year or higher allied health degree/certificate in a patient care related area or a bachelor's degree (any major) is required. All applicants must have completed the prerequisite courses prior to admission to the program. The applicant must submit a current resume, official transcripts, and two letters of recommendation. The applicant must complete and submit an application to the medical imaging department. Applicants must attend a MANDATORY information meeting as posted on the San Jacinto College website at <http://www.sanjac.edu/areas-study#medical-imaging> or by calling 281-476-1871 for dates. The applicant must also submit required health records, CPR (American Heart Associate- Health Care Provider), criminal background check, and drug screen as stated for all medical imaging students – see section directly under medical imaging technology and Central Campus for an explanation of requirements. Acceptance into the sonography program is determined after review of the application and completion of all requirements. Prospective applicants should email kristi.chachere@sjcd.edu or call the medical imaging department at 281-476-1871 for additional information.

Pre-requisite	Credit
PHED Activity	1
PHED Activity	1
PSYC 2301 General Psychology.....	3
ENGL 1301 Composition I.....	3
Humanities or Fine Arts.....	3
RADR 2309 Radiographic Imaging Equipment or PHYS 1401 College Physics I.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra.....	3
SPCH 1315 Public Speaking or SPCH 1318 Interpersonal Communications.....	3
BIOL 2401 Human Anatomy and Physiology I	4
Subtotal	24

TECHNICAL PROGRAMS

First Term	Credit
DMSO 1210 Introduction to Sonography.....	2
DMSO 1302 Basic Ultrasound Physics.....	3
DMSO 1441 Abdominopelvic Sonography	4
DMSO 1351 Sonographic Sectional Anatomy	3
Subtotal	12
Second Term	Credit
DMSO 1361 Clinical I-Diagnostic Medical Sonography.....	3
DMSO 2405 Sonography of Obstetrics/Gynecology	4
DMSO 2353 Sonography of Superficial Structures	3
DMSO 1355 Sonographic Pathophysiology	3
DMSO 1342 Intermediate Ultrasound Physics.....	3
Subtotal	16
Third Term	Credit
DMSO 2360 Clinical II-Diagnostic Medical Sonography	3
DMSO 2245 Advanced Sonography Practices	2
DMSO 2342 Sonography of High Risk Obstetrics.....	3
DMSO 2243 Advanced Ultrasound Principles and Instrumentation	2
Subtotal	10
Fourth Term	Credit
DMSO 2462 Clinical III- Diagnostic Medical Sonography/ Sonographer Technician	4
DMSO 1391 Special Topics in Sonography.....	3
DMSO 2357 Advanced Ultrasound Professionalism and Registry Review.....	3
Subtotal	10
Associate of Applied Science Degree Total	72
Capstone Experience: DMSO 2462	

Magnetic Resonance Imaging (6MRAD-MRI)

Occupational Certificate

Central Campus

The MRI program builds a foundation of general principles for learning to operate magnetic resonance imaging equipment. The program focuses on building a sound understanding of the underlying scientific theory and routine clinical practice leading to MRI. The MRI program also emphasizes the fundamental principle of magnetism and interaction of living matter with magnetic fields as well as introducing the concepts and scientific principles employed in MRI.

Application period is April 1 through June 1.

Minimum program admission criteria:

Applicants must be ARRT registered in one of the following: Radiography, Nuclear Medicine, or Radiation Therapy or registry eligible and hold a Texas Department of State Health Services Medical Radiologic Technologist License. The applicant must complete and submit an application to the medical imaging department. The applicant must also submit required health records, CPR (American Heart Associate- Health Care Provider), criminal background check, and drug screen as stated for all Medical Imaging students – see section directly under medical imaging technology and Central Campus for an explanation of requirements. Acceptance into the MRI Program is determined after review of the application and completion of requirements. Prospective participants should email debbie.dice@sjcd.edu or call the medical imaging department at 281-476-1871 for additional information.

First Term	Credit
RADR 2340 Sectional Anatomy for Medical Imaging	3
MRIT 2330 Principles of Magnetic Resonance Imaging	3
MRIT 2334 Magnetic Resonance Imaging Equipment	3
MRIT 2360 Clinical 1 - Computed Tomography Technology/ Technician	3
MRIT 2361 Clinical 2 - Computed Tomography Technology/ Technician	3
Subtotal	15

Occupational Certificate Total **15**

Capstone Experience: MRIT 2361

Computed Tomography (EMRAD-CT)

Enhanced Skills Certificate

Central Campus

The CT program includes advanced type of health professions work-based instruction that helps students synthesize new knowledge, apply previous knowledge, or gain experience managing the workflow. While enrolled in the CT Program practical experience is simultaneously related to theory.

Minimum program admission criteria:

Applicants must be ARRT registered in either radiography or nuclear medicine and hold a Texas Department of State Health Services Medical Radiologic Technologist License. The student must complete and submit an application to the medical imaging department. The applicant must also submit required health records, CPR (American Heart Associate- Health Care Provider), criminal background check, and drug screen as stated for all medical imaging students – see section directly under medical imaging technology and Central Campus for an explanation of requirements. Acceptance into the computed tomography program is determined after review of the application and completion of requirements. Prospective participants should email tonia.shivers@sjcd.edu or call the medical imaging department at 281-476-1871 for additional information.

First Term	Credit
RADR 2340 Sectional Anatomy for Medical Imaging	3
CTMT 2336 Computed Tomography Equipment and Med.....	3
CTMT 2360 Clinical I- Computed Tomography Technology/ Technician.....	3
CTMT 2361 Clinical II- Computed Tomography Technology/ Technician.....	3
Subtotal	12
Enhanced Skills Certificate Total	12

Mammography Enhanced (EMRAD-MAMM)

Enhanced Skills Certificate

Central Campus

The Mammography 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 skills needed to prepare for an 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 semesters. 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 rotations, averaging 20 hours a week.

Minimum program admission criteria:

Applicants must be an ARRT registered radiographer and hold a Texas Department of State Health Services Medical Radiologic Technologist License. The applicant must complete and submit an application to the medical imaging department. Acceptance into the mammography program is determined after review of the application and completion of requirements. The applicant must also submit required health records, CPR (American Heart Associate- Health Care Provider), criminal background check, and drug screen as stated for all medical imaging students – see section directly under medical imaging technology and Central Campus for an explanation of requirements. Acceptance into the mammography program is determined after review of the application and completion of requirements. Prospective participants should email liza.velasquez@sjcd.edu or call the medical imaging department at 281-476-1871 for additional information.

First Term	Credit
MAMT 2333 Anatomy/Positioning and Patient Assessment	3
MAMT 2363 Clinical - Mammography Technology/Technician.....	3
Subtotal	6
Enhanced Skills Certificate Total	6
Capstone Experience: MAMT 2363	

Medical Laboratory Technology

Central Campus

A criminal background check and/or alcohol and 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.

TECHNICAL PROGRAMS

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 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 College District, dependent upon the option under which they apply (Option A or Option B following).

Option A: SAT score of 680 or above on test taken prior to April 1995 or a score of 810 or above on an SAT taken on or after April 1, 1995; or an ACT composite score of 18 or above (ACT composite score of 15 or above if taken before October 1989).

Option B: Applicants must complete at San Jacinto Community College District 10 semester hours as specified below with no grade lower than C.

BIOL 2401 and
ENGL 1301 and
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.

Medical Laboratory Technology (3MED-LABT)

Associate of Applied Science Degree

Pre-requisite	Credit
BIOL 2401 Human Anatomy and Physiology I	4
*MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra	3
Subtotal	7

First Term	Credit
HPRS 1106 Essentials of Medical Terminology	1
MLAB 1201 Introduction to Clinical Lab Science	2
PLAB 1223 Phlebotomy.....	2
MLAB 1415 Hematology	4
ENGL 1301 Composition I.....	3
BIOL 2402 Human Anatomy and Physiology II	4
Subtotal	16

Second Term	Credit
MLAB 1227 Coagulation	2
MLAB 1235 Immunology/Serology	2
MLAB 1311 Urinalysis and Body Fluids.....	3
MLAB 2434 Microbiology	4
SCIT 1495 Special Topics in Analytical Chemistry	4
Subtotal	15

PostY1Summer	Credit
MLAB 2166 Practicum I - Medical Laboratory Technician.....	1
MLAB 2431 Immunohematology	4
Subtotal	5

Third Term	Credit
MLAB 1231 Parasitology/Mycology.....	2
MLAB 2266 Practicum II - Medical Laboratory Technician.....	2
MLAB 2501 Chemistry	5
ITSC 1309 Integrated Software Applications or BCIS 1305 Business Computer Applications	3
Speech.....	3
Subtotal	15

Fourth Term	Credit
MLAB 2338 Advanced Topics in Medical Laboratory Technician.....	3
MLAB 2267 Practicum III - Medical Laboratory Technician	2
PSYC 2301 General Psychology.....	3
**Humanities or Fine Arts.....	3
Subtotal	11
Associate of Applied Science Degree Total	69
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 Fine Arts section of the Transfer Core Curriculum.*

Clinical Laboratory Assistant (6MED-CLA)

Occupational Certificate

Central Campus

First Term	Credit
SPCH 1318 Interpersonal Communications	3
HPRS 1105 Medical Law/Ethics for Health	1
HPRS 1106 Medical Terminology.....	1
HPRS 1191 Special Topics in Health Professions	1
HPRS 1391 Special Topics in Health Professions	3
PLAB 1166 Practicum Phlebotomy	1
PLAB 1223 Phlebotomy.....	2
VNSG 1420 Anatomy and Physiology for Allied Health	4
Subtotal	16

Occupational Certificate Total **16**

Capstone Experience: HPRS 1191

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.

TECHNICAL PROGRAMS

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

Associate of Applied Science Degree

Pre-requisite	Credit
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I.....	3

Subtotal **3**

First Term

	Credit
SOCW 2361 Introduction to Social Work	3
PSYC 2301 General Psychology.....	3
ENGL 1301 Composition I.....	3
PSYT 1371 Mental Health Legal and Ethical Issues	3
PHED Activity	1
CMSW 1341 Behavior Modification and Cognitive Disorder	3

Subtotal **16**

Second Term

	Credit
PHED Activity	1
PSYT 2331 Abnormal Psychology	3
SCWK 2301 Assessment and Case Management.....	3
PSYT 1471 Basic Nursing Skills for Mental Health/ Psychiatric Technicians	4
PSYT 2301 Psychology of Group Dynamics.....	3

Subtotal **14**

PostY1Summer

	Credit
PMHS 2366 Practicum - Psychiatric/Mental Health Services Technician.....	3

Subtotal **3**

Third Term

	Credit
SPCH 1318 Interpersonal Communications	3
PSYT 2321 Crisis Intervention.....	3
DAAC 1304 Pharmacology of Addiction.....	3
DAAC 1311 Counseling Theories.....	3
MATH 1314 College Algebra or MATH 1333 Contemporary Mathematics for Technical Programs	3

Subtotal **15**

Fourth Term

	Credit
*Humanities or Fine Arts.....	3
DAAC 2307 Addicted Family Intervention	3
DAAC 2341 Counseling Alcohol and Other Drug Addictions	3
ENGL 1302 Composition II or ENGL 2311 Technical Report Writing.....	3

Subtotal **12**

PostY2Summer

	Credit
DAAC 2366 Practicum - Substance Abuse/Addiction Counseling	3

Subtotal **3**

Associate of Applied Science Degree Total

66

Capstone Experience: PMHS 2366 and DAAC 2366

NOTE: Students must pass each course listed in the degree or certificate for Mental Health Services with a grade of C or higher to be eligible to receive a degree or certificate.

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

Occupational Certificate

North Campus

First Term

	Credit
DAAC 1311 Counseling Theories	3
DAAC 2341 Counseling Alcohol and Other Drug Addictions	3
PSYT 1371 Mental Health Legal and Ethical Issues	3

Subtotal **9**

DAAC 1304 Pharmacology of Addiction.....	3
CMSW 1341 Behavior Modification and Cognitive Disorder or DAAC 2307 Addicted Family Intervention or SCWK 2301 Assessment and Case Management	3

DAAC 2366 Practicum-Substance Abuse/
Addiction Counseling..... 3

Subtotal **9**

Occupational Certificate Total

18

Capstone Experience: DAAC 2366

Approved Electives

CMSW 1341 DAAC 2307 SCWK 2301

NOTE: Students must pass each course listed in the degree or certificate for Mental Health Services with a grade of C or higher to be eligible to receive a degree or certificate.

TECHNICAL PROGRAMS

Substance Abuse Counseling (4MH-SAC)

Certificate of Technology

North Campus

Pre-requisite Credit

BCIS 1305 Business Computer Applications or
ITSC 1309 Integrated Software Applications I..... 3

Subtotal 3

First Term Credit

SOCW 2361 Introduction to Social Work 3
DAAC 1311 Counseling Theories..... 3
DAAC 1304 Pharmacology of Addiction..... 3
PSYC 2301 General Psychology..... 3
PSYT 1371 Mental Health Legal and Ethical Issues..... 3

Subtotal 15

Second Term Credit

PSYT 2331 Abnormal Psychology 3
DAAC 2307 Addicted Family Intervention 3
CMSW 1341 Behavior Modification and
Cognitive Disorder..... 3
SCWK 2301 Assessment and Case Management..... 3
DAAC 2341 Counseling Alcohol and Other
Drug Addictions 3

Subtotal 15

Third Term Credit

DAAC 2366 Practicum - Substance Abuse/Addiction
Counseling 3

Subtotal 3

Certificate of Technology Total 36

Capstone Experience: DAAC 2366

NOTE: Students must pass each course listed in the degree or certificate for Mental Health Services with a grade of C or higher to be eligible to receive a degree or certificate.

Mental Health Technician (4MH-TECH)

Certificate of Technology

North Campus

Pre-requisite Credit

BCIS 1305 Business Computer Applications or
ITSC 1309 Integrated Software Applications I..... 3

Subtotal 3

First Term Credit

SOCW 2361 Introduction to Social Work 3
PSYC 2301 General Psychology..... 3
ENGL 1301 Composition I..... 3
PSYT 1371 Mental Health Legal and Ethical Issues..... 3
CMSW 1341 Behavior Modification and
Cognitive Disorders..... 3

Subtotal 15

Second Term Credit

PSYT 2331 Abnormal Psychology 3
SCWK 2301 Assessment and Case Management..... 3
PSYT 1471 Basic Nursing Skills for Mental Health/
Psychiatric Technicians 4
PSYT 2301 Psychology of Group Dynamics..... 3

Subtotal 13

Third Term Credit

PMHS 2366 Practicum - Psychiatric/Mental Health Services
Technician..... 3

Subtotal 3

Certificate of Technology Total 34

Capstone Experience: PMHS 2366

NOTE: Students must pass each course listed in the degree or certificate for Mental Health Services with a grade of C or higher to be eligible to receive a degree or certificate.

TECHNICAL PROGRAMS

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

First Term	Credit
MUSI 1301 *Music Fundamentals	3
MUSI 1181 Class Piano I	1
MUAP Private Music Lesson or MUSI 1188 Class Percussion or MUSI 1192 Class Guitar or MUSI 1183 Class Voice I	1
MUSC 1327 Audio Engineering I	3
Speech	3
ENGL 1301 Composition I	3
PHED Activity	1
Subtotal	15
Second Term	Credit
MUSC 2427 Audio Engineering II	4
MUAP Private Lesson	1
ENGL 2311 Technical Report Writing or ENGL 1302 Composition II	3
MUSC 1331 Musical Instrument Digital Interface	3
MUSI 1306 Listening to Music or MUSI 1310 American Popular Music	3
MUEN Ensemble	1
PHED Activity	1
Subtotal	16
PostY1Summer	Credit
MATH 1314 College Algebra	3
MUSC 2101 Audio Engineering Practices	1
**Behavioral or Social Sciences	3
Subtotal	7
Third Term	Credit
MUSC 2447 Audio Engineering III	4
MUSC 2355 Musical Instrument Digital Interface II	3
MUSC 2101 Audio Engineering Practices	1
MUSI 1211 Theory of Music I	2
MUSI 1216 Ear Training Sight Singing I	2
MUAP Private Lesson	2
MUEN Ensemble	1
Subtotal	15

Fourth Term	Credit
MUSI 1212 Theory of Music II	2
MUSI 1217 Ear Training Sight Singing II	2
MUSB 1305 Survey of Music Business	3
MUSC 1323 Audio Electronics Troubleshooting	3
MUSC 2386 Internship - Recording Arts Technology/Technician	3
MUEN Ensemble	1
Subtotal	14

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	Credit
MUSI 1301 Music Fundamentals	3
MUSI 1181 Class Piano I	1
MUSB 1305 Survey of Music Business	3
MUAP Private Music Lesson or MUSI 1183 Class Voice I or MUSI 1188 Class Percussion or MUSI 1192 Class Guitar I	1
MUSC 1327 Audio Engineering I	3
Subtotal	11
Second Term	Credit
MUSC 2427 Audio Engineering II	4
MUAP Private Lesson	1
MUSC 1323 Audio Electronics Troubleshooting	3
MUSC 1331 Musical Instrument Digital Interface	3
Subtotal	11
Third Term	Credit
MUAP Private Lesson	1
MUSC 2355 Musical Instrument Digital Interface II	3
MUSC 2447 Audio Engineering III	4
MUSC 2101 Audio Engineering Practices	1
Subtotal	9
Fourth Term	Credit
MUSC 2101 Audio Engineering Practices	1
MUSC 2386 Internship - Recording Arts Technology/Technician	3
Subtotal	4
Certificate of Technology Total	35
Capstone Experience: MUSC 2386	

Broadcast Audio Technology (4MUS-BRCST)

Certificate of Technology

Central Campus

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

First Term	Credit
MUSC 1327 Audio Engineering I.....	3
RTVB 1380 Cooperative Education-Radio and Television Broadcasting.....	3
MUSC 1331 Musical Instrument Digital Interface.....	3
RTVB 1355 Radio and Television Announcing.....	3
Subtotal	12

Second Term	Credit
MUSC 2427 Techniques of Audio Engineering II	4
MUSC 1323 Audio Electronics Troubleshooting	3
RTVB 1317 Survey of Electronic Media.....	3
RTVB 2380 Cooperative Education-Radio and Television Broadcasting.....	3
MUSC 2101 Audio Engineering Practices.....	1
Subtotal	14

Third Term	Credit
MUSC 2447 Audio Engineering III	4
RTVB 1409 Audio/Radio Production I	4
RTVB 1391 Special Topics in Radio and Television Broadcasting.....	3
MUSC 2386 Internship - Recording Arts Technology/ Technician.....	3
Subtotal	14

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	Credit
MUSB 1305 Survey of Music Business.....	3
MUSC 1331 Musical Instrument Digital Interface.....	3
MUSC 1327 *Audio Engineering I.....	3
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

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 College District offers the required classroom training in the basic five methods of MT, PT, VT, UT, and ET, required by the American Society of Non-Destructive Testing Society guidelines, SMT-TC-1A. Training in these areas 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

Second Term	Credit
BCIS 1305 Business Computer Applications or ITSC 1309 Intergrated 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
NDTE 1440	NDTE 1454	NDTE 2411	QCTC 1448

TECHNICAL PROGRAMS

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 Testing and Inspection Systems	4
ITSC 1309 Intergrated Software Applications I or BCIS 1305 Business Computer Applications	3
Subtotal	15
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
Approved Elective or WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW)	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	Credit
NDTE 1301 Film Interpretation of Weldments	3
Speech	3
*Humanities or Fine Arts	3
NDTE 1440 Eddy Current Testing: Level 1 & 2	4
Approved Elective	3
Subtotal	16
Associate of Applied Science Degree Total	65
Capstone Experience: METL 2435	

Approved Electives

DFTG 1405	DFTG 1409	MATH 1316	METL 1313
NDTE 2411	PTAC 2314	QCTC 1341	QCTC 1343
QCTC 1448	WLDG 1534	WLDG 2580	NDTE 2470
NDTE 2339			

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

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 associate degree nursing (ADN) programs 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 Accreditation Commission for Education in Nursing (ACEN) - the contact information is: ACEN, 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326. Office: 404.975.5000. Fax 404-975-5020.

The programs are:

- Generic ADN program, offered on the Central Campus, a five semesters program designed for the novice in health care aspiring to become a registered nurse.
- 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.
- LVN/Paramedic to ADN Mobility program, offered on the South Campus, is 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.
- The North Campus is in the proposal phase to offer a Generic ADN program, pending the Texas Board of Nursing approval. Please contact North Campus for further information.
- 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).

Generic Associate Degree Nursing, Central Campus

A generic student is a novice in health care generally does not have any formal nursing education. Successful completion of the generic ADN program by these students will qualify graduates to make application for the National Council Licensure Examination Registered Nurse (NCLEX-RN).

Students applying for admission to the Generic ADN program must submit the following items:

1) Application for Admission to San Jacinto College via our website at <http://sanjac.edu/apply> (provided online).

2) Completion of the Associate Degree Nursing Program Application (provided online) during application period.

3) Application Periods.

The ADN program accepts applicants twice a year. Associate Degree Nursing Program Application can be obtained at www.sanjac.edu/nursing during the following application periods.

Fall Application Period: April 1st – June 1st

Spring Application Period: September 1st – November 1st

Students are strongly encouraged to contact a Counselor or Educational Planner in the Educational Planning & Counseling Center to assist with the San Jacinto College and ADN Admissions process. Please call (281) 998-6150 ext. 1014 to schedule an appointment.

4) Selection Criteria.

Students must apply for admission to the Associate Degree Nursing Program by submitting an Associate Degree Nursing Program application and packet with ALL required official documents at the same time to the ADN Office no later than the end of the application period.

Students who apply for admission to the Associate Degree Nursing program will be selected on the basis of the highest scores on the Admission Scoring Rubric. The rubric consists of points given for the grades obtained on prerequisite courses (see program specific prerequisites below), HESI A2 results, overall GPA, and the completed admission packet. Meeting minimum entry requirements does not guarantee program admission.

5) Code of Conduct.

All students admitted to the ADN Program are expected to maintain the highest personal and profession standards of conduct, in class and in clinical, in accordance with College policies and procedures, the College Student Handbook, the ADN Department Student Handbook and clinical facility policies and procedures, which are used as extended campus sites. Any information indicating that such standards are not adhered to is subject to review by the Department Chair and/or members of the Nursing department faculty, and may result in a recommendation to the College for dismissal from the program.

6) Official Transcripts must be submitted with the application packet.

- (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 either April 1 or September 1 to request transcripts. All courses completed outside the San Jacinto College District must be evaluated by enrollment services.

TECHNICAL PROGRAMS

(b) A minimum cumulative GPA of 2.5 is required for all applicants.

(c) Submit all official transcripts sealed from other colleges, including San Jacinto College transcripts, with ADN application.

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

7) HESI A2 Admission Test.

Applicants seeking admission must take an official Nursing Admission Assessment Exam (HESI A2). A composite score of 75 percent and a score of 75 percent in EACH section of Reading Comprehension, Grammar, Vocabulary, Anatomy & Physiology, Biology and Math is required. The Learning Styles section is required, but will not be used in determining admissions. Submit all HESI A2 admission test scores with ADN application. Official test scores should be requested as soon as possible. Please visit <http://www.sanjac.edu/node/6651> (Testing Center - HESI website) for test dates on Central Campus.

8) A Criminal Background Check and Drug Screening are required prior to enrolling in the Associate Degree Nursing Program, and is part of the application process. They must be completed by the company designated by the ADN program. Receipts for the Criminal Background Check and Drug Screening must be submitted with the application.

Criminal Background Check You will need to go to www.precheck.com, click on 'Student Check' on the right, click on 'Order Student Background Check' (above and to the left of 'Student Check'), under School, select San Jacinto College Central-Nursing, under Program, select 'Nursing', click 'Submit'. A Criminal Background check is only good for one year.

(a) Applicants with a CLEAR Criminal Background Check will be considered for admission.

(b) Applicants whose Criminal Background Check is NOT CLEAR will have to submit a Petition For Declaratory Order to the Texas Board of Nursing for evaluation. If the applicant is deemed eligible to take the NCLEX-RN, the Board will issue the applicant a statement of eligibility. The original statement must be submitted to the Associate Degree Department Chair. Please visit <http://www.bon.texas.gov/olv/pdfs/DOapp.pdf> for more information.

(c) An applicant whose Criminal Background Check is not clear and does NOT receive a statement of eligibility from the Board will not be allowed to enroll in the ADN Program.

Drug Screening must be completed during application period, noted above. The applicant must go to Deer Park Family Clinic for your screening. The address is 2910 Center Street, Deer Park, Texas; phone number: 281-479-5941. A drug screening must be repeated with each application submission.

(a) Applicants with a negative drug screening will be considered for admission.

(b) Applicants with a POSITIVE drug screening: The Company will attempt to reconcile results with the applicant's Health Care Provider.

(c) Applicants with a positive drug screening who are NOT reconciled will not be allowed to enroll in the ADN Program.

9) CPR Card and Immunization documentation must be submitted with ADN application.

In order for your ADN application to be accepted, you must have completed a minimum of:

- CPR card from the American Heart Association Healthcare Provider (online courses are not accepted)
- Varicella shot #2 or titer
- Hepatitis A shot #1 or #2
- Hepatitis B shot #3 or titer
- or TWINRIX shot #3
- Measles, Mumps and Rubella (MMR) #2 or titer
- Tdap (administered 2005 or later)
- Current Flu vaccine
- TB Skin Test (within last 12 months)
- Chest X-Ray Results (If applicable)

The Texas Administrative Code Rule 97.64 states that enrolled students may not participate in coursework activities involving direct patient contact until the full vaccination series has been administered.

Titers for MMR, Varicella, Hepatitis A, and Hepatitis B are required to be on file in the student's record prior to the end of the first semester.

10) Health – a Physical Exam is required.

Evidence of physical and emotional fitness upon admission and throughout the program is expected and is subject to review by the Associate Degree Nursing Department and medical opinion, or policy of hospitals/agencies which are used as extended campus sites for assigned educational experience.

A physical examination must be passed prior to entry into the ADN Program after a student has been selected and accepted. Physical exams may be scheduled with a private physician utilizing the forms issued by the Associate Degree Nursing Program upon acceptance. The examination must demonstrate that the student is physically fit to perform full duty and be free from communicable diseases.

Associate Degree Nursing (RN) (3NUR-ADN), Generic Program

Associate of Applied Science Degree

Central Campus

Pre-requisite	Credit
BIOL 2401 Human Anatomy and Physiology I*	4
BIOL 2402 Human Anatomy and Physiology II*	4
BIOL 2420 Microbiology and Pathology or BIOL 2421 Introductory Microbiology*	4
ENGL 1301 Composition I*	3
*MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra or higher	3

Subtotal **18**

First Term Credit

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

Subtotal **11**

Second Term Credit

RNSG 1301 Pharmacology	3
RNSG 1341 Common Concepts of Adult Health	3
RNSG 1261 Clinical Nursing Common Concepts of Adult Health	2
RNSG 1343 Complex Concepts of Adult Health	3
RNSG 1262 Clinical Nursing Complex Concepts of Adult Health	2
PSYC 2314 Lifespan Growth and Development	3
PHED Activity	1

Subtotal **17**

PostY1Summer Credit

RNSG 2231 Advanced Concept Adult Health	2
RNSG 2260 Clinical Nursing Advanced Concepts of Adult Health	2

Subtotal **4**

Third Term Credit

RNSG 2201 Care of Children and Families	2
RNSG 2262 Clinical Nursing Care of Children and Families	2
RNSG 1251 Care of Childbearing Family	2
RNSG 1263 Clinical Nursing Care of the Childbearing Family	2
ENGL 2311 Technical Report Writing or ENGL 1302 English Composition II	3
PHED Activity	1

Subtotal **12**

Fourth Term Credit

RNSG 2213 Mental Health Nursing	2
RNSG 2261 Clinical Nursing Mental Health	2
RNSG 2121 Prof Nsg Leadership and Mgt	1
RNSG 2263 Clinical Nursing Management of Client Care	2
**Humanities or Fine Arts	3

Subtotal **10**

Associate of Applied Science Degree Total **72**

Capstone Experience: RNSG 2121

External Learning Experience: RNSG 2263

Verification of Workforce Competencies

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 which have numbers beginning with 0 do not apply toward the Associate Degree.*

**Biology courses must be taken within the last five years with a passing grade no less than "C". (Any RNSG courses must have been taken within the last two years with a passing grade no less than "C").*

***Courses which satisfy this requirement are listed in the Humanities and Fine 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 associate degree nursing (ADN) transition to RN (LVN-RN and paramedic to RN specialty) Program is designed for the licensed vocational nurse or paramedic applicant who desires to continue their education in health care to become professional nurses. 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).

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 <http://sanjac.edu/apply> (provided online).

2). Completion of the Associate Degree Nursing Program Application (provided online) during application period.

3) Application Periods.

The ADN Program accepts applicants twice a year. Associate degree nursing program application can be obtained at www.sanjac.edu/nursing during the following application periods.

Fall Application Period: April 1st – June 1st

Spring Application Period: September 1st – November 1st

Students are strongly encouraged to contact a counselor or educational planner in the Educational Planning & Counseling Center to assist with the San Jacinto College and ADN admissions process. Please call (281) 998-6150 ext. 1014 to schedule an appointment.

TECHNICAL PROGRAMS

4) Selection Criteria:

Students must apply for admission to the associate degree nursing program by submitting an associate degree nursing program application and packet with ALL required official documents at the same time to the ADN Office no later than the end of the application period.

Students who apply for admission to the associate degree nursing program will be selected on the basis of the highest scores on the admission scoring rubric. The rubric consists of points given for the grades obtained on prerequisite courses (see program specific prerequisites below), HESI A2 results, overall GPA, and the completed admission packet. Meeting minimum entry requirements does not guarantee program admission.

5) Code of conduct: All students admitted to the ADN Program are expected to maintain the highest personal and profession standards of conduct, in class and in clinical, in accordance with College policies and procedures, the College Student Handbook, the ADN Department Student Handbook and clinical facility policies and procedures which are used as extended campus sites. Any information indicating that such standards are not adhered to is subject to review by the department chair and/or members of the Nursing department faculty, and may result in a recommendation to the College for dismissal from the program.

6) Official Transcripts must be submitted with the application packet.

- (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 either April 1st or September 1st to request transcripts. All courses completed outside the San Jacinto College District must be evaluated by enrollment services.
- (b) A minimum cumulative GPA of 2.5 is required for all applicants.
- (c) Also, submit all official transcripts sealed from other colleges, including San Jacinto College transcripts, with ADN application.

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

7) LVN Licensure-EMT/Paramedic Certification. Applicants applying to the ADN Transition Program must bring their current Texas licenses/certificates. The LVN applicant to the Transition to RN Program must have a current Texas License for Practice as a Vocational Nurse. The EMT/paramedic applicant to the paramedic to RN specialty program must have a current EMT/aramedic Certificate from the Texas Department of State Health Services. The

applicant must attach a copy of licensure/certificate to the ADN application packet.

8) HESI A2 Admission Test. Applicants seeking admission must take an official Nursing Admission Exam (HESI A2). A composite score of 75 percent and a score of 75 percent in EACH section of reading comprehension, grammar, vocabulary, anatomy and physiology, biology and math is required. The Learning Styles section is required, but will not be used in determining admissions. Submit all HESI A2 admission test scores with ADN application. Official test scores should be requested as soon as possible. Please visit <http://www.sanjac.edu/node/6651> (Testing Center - HESI website) for test dates on Central Campus.

9) A Criminal Background Check and Drug Screening are required prior to enrolling the associate degree nursing program, and is part of the application process. They must be completed by the company designated by the ADN program. Receipts for the criminal background check and drug screening must be submitted with the application.

For the criminal background check, you will need to go to www.precheck.com, click on 'Student Check' on the right, click on 'Order Student Background Check' (above and to the left of 'Student Check'), under School, select San Jacinto College Central–Nursing, under Program, select 'Nursing', click 'Submit'. A Criminal Background check is only good for one year.

- (a) Applicants with a CLEAR Criminal Background Check will be considered for admission.
- (b) Applicants whose criminal background check is NOT CLEAR will have to submit a Petition For Declaratory Order to the Texas Board of Nursing for evaluation. If the applicant is deemed eligible to take the NCLEX-RN, the Board will issue the applicant a statement of eligibility. The original statement must be submitted to the associate degree department chair. Please visit <http://www.bon.texas.gov/olvpdfs/DOapp.pdf> for more information.
- (c) An applicant whose criminal background check is not clear and does NOT receive a statement of eligibility from the Board will not be allowed to enroll in the ADN Program.

Drug screening must be completed during application period, noted above. The applicant must go to Deer Park Family Clinic for your screening. The address is 2910 Center Street, Deer Park, Texas; phone number: 281-479-5941. A drug screening must be repeated with each application submission.

- (a) Applicants with a negative drug screening will be considered for admission.
- (b) Applicants with a POSITIVE drug screening: The Company will attempt to reconcile results with the applicant's Health Care Provider.

TECHNICAL PROGRAMS

(c) Applicants with a positive drug screening who are NOT reconciled will not be allowed to enroll in the ADN Program.

10) CPR Card and Immunization documentation must be submitted with ADN application.

In order for your application to be accepted, you must have completed a minimum of:

- CPR card from the American Heart Association Healthcare Provider (online courses are not accepted)
- Varicella shot #2 or titer
- Hepatitis A shot #1 or #2
- Hepatitis B shot #3 or titer or
- TWINRIX shot #3
- Measles, Mumps and Rubella (MMR) #2 or titer
- Tdap (administered 2005 or later)
- Current Flu vaccine
- TB Skin Test (within last 12 months)
- Chest X-Ray Results (If applicable)

The Texas Administrative Code Rule 97.64 states that enrolled students may not participate in coursework activities involving direct patient contact until the full vaccination series has been administered.

Titers for MMR, Varicella, Hepatitis A, and Hepatitis B are required to be on file in the student's record prior to the end of the first semester.

11) Health – a Physical Exam is required

Evidence of physical and emotional fitness upon admission and throughout the program is expected and is subject to review by the associate degree nursing department and medical opinion, or policy of hospitals/agencies which are used as extended campus sites for assigned educational experience.

A physical examination must be passed prior to entry into the ADN Program after a student has been selected and accepted. Physical exams may be scheduled with a private physician utilizing the forms issued by the associate degree nursing program upon acceptance. The examination must demonstrate that the student is physically fit to perform full duty and be free from communicable diseases.

ADN - Transition to RN (LVN to RN) (3NUR-LTRN), Transition Program

Associate of Applied Science Degree

Central Campus

Pre-requisite	Credit
BIOL 2401 Human Anatomy and Physiology I	4
BIOL 2402 Human Anatomy and Physiology II	4
MATH 1314 College Algebra or MATH 1333 Contemporary Mathematics for Technical Programs	3
BIOL 2420 Microbiology and Pathology or BIOL 2421 Intro to Microbiology	4
PSYC 2301 General Psychology	3
PSYC 2314 Lifespan Growth and Development	3
ENGL 1301 Composition I.....	3
RNSG 1215 **Health Assessment	2
PHED Activity.....	1
Subtotal	27

First Term	Credit
RNSG 2207 Adaptation to Role of Professional Nurse	2
RNSG 1301 Pharmacology	3
RNSG 1161 Clinical Transition Medical Surgical Nursing	1
RNSG 1343 Complex Concepts of Adult Health	3
RNSG 1262 Clinical Nursing Complex Concepts of Adult Health.....	2
Subtotal	11

Second Term	Credit
RNSG 1251 Care of the Childbearing Family	2
RNSG 1263 Clinical Nursing Care of Childbearing Family.....	2
RNSG 2231 Advanced Concepts of Adult Health.....	2
RNSG 2260 Clinical Nursing Advanced Concepts of Adult Health.....	2
ENGL 2311 Technical Report Writing or ENGL 1302 Composition II.....	3
Subtotal	11

PostY1Summer	Credit
RNSG 2201 Care of Children and Families	2
RNSG 2262 Clinical Nursing Care of Children and Families.....	2
Subtotal	4

Third Term	Credit
RNSG 2213 Mental Health Nursing	2
RNSG 2261 Clinical Nursing Mental Health	2
RNSG 2121 Professional Nursing: Leadership and Management.....	1
RNSG 2263 Clinical Nursing Leadership and Management....	2
***Humanities or Fine Arts.....	3
PHED Activity.....	1
Subtotal	11

Associate of Applied Science Degree Total 64
Verification of Workforce Competencies

TECHNICAL PROGRAMS

TECHNICAL PROGRAMS

Capstone Experience: RNSG 2121, Comprehensive Exit 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 which have numbers beginning with 0 do not apply toward the associate degree.

*Biology courses must be taken within the last five years with a passing grade no less than "C". All RNSG courses must have been taken within the last two years with a passing grade no less than "C."

Note: If you have two or more grades of "D" or "F" in any RNSG (Nursing) courses, you are ineligible to apply until two years have passed since your most recent failing grade.

** An applicant needs special permission from the department chair to take this course.

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

Note: The course outline is representative of Fall entry only. Adjustments will be made for Spring entry.

Paramedic to RN Specialty (3NUR-PTRN), Transition Program

Associate of Applied Science Degree Central Campus

Pre-requisite	Credit
BIOL 2401 Human Anatomy and Physiology I	4
RNSG 1413 **Foundations for Nursing Practice	4
BIOL 2402 Human Anatomy and Physiology II	4
*MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra	3
BIOL 2420 Microbiology and Pathology or BIOL 2421 Intro to Microbiology	4
PSYC 2301 General Psychology	3
PSYC 2314 Lifespan Growth and Development	3
ENGL 1301 *Composition I.....	3
RNSG 1215 **Health Assessment	2
PHED Activity	1
Subtotal	31

First Term	Credit
RNSG 1301 Pharmacology	3
RNSG 2207 Adaptation to Role of Professional Nurse	2
RNSG 1161 Clinical Transition Medical Surgical Nursing	1
RNSG 1343 Complex Concepts of Adult Health	3
RNSG 1262 Clinical Nursing Complex Concepts of Adult Health.....	2
Subtotal	11

Second Term	Credit
RNSG 1251 Care of the Childbearing Family	2
RNSG 1263 Clinical Nursing Care of Childbearing Family.....	2
RNSG 2231 Advanced Concepts of Adult Health.....	2
RNSG 2260 Clinical Nursing Advanced Concepts of Adult Health.....	2
ENGL 2311 Technical Report Writing or ENGL 1302 Composition II.....	3
Subtotal	11

PostY1Summer	Credit
RNSG 2201 Care of Children and Families	2
RNSG 2262 Clinical Nursing Care of Children and Families....	2
Subtotal	4

Third Term	Credit
RNSG 2213 Mental Health Nursing	2
RNSG 2261 Clinical Nursing Mental Health	2
RNSG 2121 Professional Nursing: Leadership and Management	1
RNSG 2263 Clinical Nursing Leadership and Management....	2
***Humanities or Fine Arts.....	3
PHED Activity	1
Subtotal	11

Associate of Applied Science Degree Total **68**

Verification of Workforce Competencies

Capstone Experience: RNSG 2121, Comprehensive Exit 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.

*Biology courses must be taken within the last five years with a passing grade no less than "C". All RNSG courses must have been taken within the last two years with a passing grade no less than "C".

**Paramedic applicants only. Applicant needs special permission from department chair to take RNSG 1413 Foundations for Nursing Practice and RNSG 1215 Health Assessment courses.

Note: If you have two or more grades of "D" or "F" in any RNSG (Nursing) courses, you are ineligible to apply until two years have passed since your most recent failing grade.

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

Note: The course outline is representative of Fall semester entry only Adjustments will be made for Spring semester entry.

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, 333 Guadalupe #3-460, Austin, Texas 78701 and accredited by the National League of Nursing Accrediting Commission (NLNAC) (National League for Nursing Accrediting Commission, 3343 Peachtree Road NE, Suite 850 Atlanta, Georgia 30326, 404-975-5000.

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 1301, RNSG 1215, and RNSG 1108.

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.
- 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. In order for credit earned in a required pre-nursing

course (RNSG) to be applicable to the ADN Mobility program, credit must have been earned within the past two years and the grade earned must have been a C or above. Credit earned in a required pre-nursing course exceeds the two-year stipulation if the credit was earned two or more years prior to the first term in which the student enrolls in the program.

There are a limited number of student spaces; therefore, students are admitted on a competitive basis. Students who apply for admission to the department of nursing will be selected on the basis of grade point average. The student must maintain an overall grade point average of 2.5 or above and earn at least 24 credit hours at San Jacinto College District in order to graduate from the LVN/paramedic–ADN Mobility program with an Associate of Applied Science in Nursing. Students must also complete an Admission Assessment Exam (A2) and achieve percentage scores in each category as determined by the curriculum committee in the LVN/paramedic to ADN Mobility program. Prospective students can only sit for the HESI Exam(A2) after required prerequisites have been completed. In addition, the HESI can only be taken at San Jacinto College-South Campus. Students are allowed to take the exam two (2) times per enrollment semester. All prospective students are required to have a criminal background check completed prior to consideration for admission. Any student who has been convicted of misdemeanors (other than minor traffic violations), felonies will not be admitted to the program. Random urine drug screens may be required during the program. Positive drug screens will be cause for dismissal from the program. Students may petition to the department for further guidance regarding criminal background checks or urine drug screening test.

Effective Jan. 1, 1996, a person who has 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.*

TECHNICAL PROGRAMS

LVN/Paramedic to ADN Mobility (3NUR-LMOB) (3NUR-PMOB)

Associate of Applied Science Degree

South Campus

Pre-requisite	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
First Term	
Credit	
Approved Elective.....	3
RNSG 1413 Foundations for Nursing Practice	4
RNSG 1417 Concepts in Nursing Practice I for the Articulating Student	4
RNSG 1260 Clinical: Concepts in Nursing Practice I for the Articulating Student.....	2
Subtotal	13
Second Term	
Credit	
PSYC 2314 Lifespan Growth and Development.....	3
PHED Activity.....	1
PHED Activity.....	1
RNSG 1251 Care of the Childbearing Family	2
RNSG 2201 Care of Children And Families	2
RNSG 2262 Clinical: Nursing Care of Children and Families....	2
RNSG 1263 Care of the Childbearing Family	2
Subtotal	13
Third Term	
Credit	
*Humanities or Fine Arts.....	3
RNSG 2261 Clinical Nursing Mental Health	2
RNSG 2163 Clinical: Concepts of Advanced Nursing Practice and Management for the Articulating Student.....	1
RNSG 2213 Mental Health Nursing.....	2
RNSG 2271 Concepts of Advanced Nursing Practice and Management for the Articulating Student.....	2
Subtotal	10
Associate of Applied Science Degree Total	66
Capstone Experience: RNSG 2163, Comprehensive Exit Exam	
Credential Exam: NCLEX-RN	

Approved Electives:

CHEM 1411	MATH 1342	HECO 1322
BIOL 2305	SPCH 1315	SPCH 1318

* Courses which satisfy this requirement are listed in the Humanities and Fine Arts section of the Transfer Core.

Vocational Nursing (VN)

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.

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 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.

First Term	Credit
VNSG 1116 Nutrition or	
HECO 1322 Principles of Nutrition.....	1
VNSG 1227 Essentials of Medication Administration.....	2
VNSG 1320 Anatomy and Physiology for Allied Health, or	
BIOL 2401 Human Anatomy and Physiology I and	
BIOL 2402 Human Anatomy and Physiology II.....	3
VNSG 1323 Basic Nursing Skills.....	3
VNSG 1170 Clinical Prep.....	1
VNSG 2331 Advanced Nursing Skills.....	3
VNSG 1260 Clinical I.....	2
Subtotal	15

Second Term	Credit
VNSG 1301 Mental Health and Mental Illness.....	3
VNSG 1262 Clinical III-Practical Nurse.....	2
VNSG 1231 Pharmacology.....	2
VNSG 1329 Medical - Surgery Nursing I.....	3
VNSG 1361 Clinical II-Practical Nurse.....	3
VNSG 1226 Gerontology.....	2
Subtotal	15

Third Term	Credit
VNSG 1119 Leadership and Professional Development.....	1
VNSG 1230 Maternal Neonatal Nursing.....	2
VNSG 1234 Pediatrics.....	2
VNSG 1332 Medical-Surgery Nursing II.....	3
VNSG 2260 Clinical IV-Practical Nurse.....	2
VNSG 2261 Clinical V-Practical Nurse.....	2
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 & 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 & safety technology program is multi-disciplinary in nature, providing students with relevant exposure to biological, chemical, physical, mathematical, and health sciences, as well as a thorough introduction to occupational health and safety concepts. Common occupational safety concerns deal with safety hazards involved with confined space entry, hazardous energy control, hazard communication, and compliance with safety standards, environmental protection, 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; and 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 Health, Environmental, and Safety Technologist (CCHST). CCHST will administer the testing. 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. The students may complete curriculum at the upper-level universities leading toward Certified Safety Professional and/or Certified Industrial Hygienist.

Program Entry

OHST candidates (new or returning) must attend a mandatory OHST program orientation before being allowed to register for program related courses (does not apply to academic courses). Fall entry (August) orientations are held between April and May. Spring entry (January) orientations are held between November and December. No new students will be allowed to enter the OHST program during the summer. Please contact the Public Safety and Security Department for upcoming orientation dates at 281.998.6150, ext. 3686.

TECHNICAL PROGRAMS

Occupational Health and Safety Technology (4OCC-HLTH)

Certificate of Technology

Central Campus

First Term	Credit
EPCT 1307 Introduction to Environmental, Safety and Health Technology.....	3
OSHT 1309 Physical Hazards Control	3
EPCT 1301 Hazardous Waste Operations and Emergency Response (HAZWOPER) Training and Related Topics	3
OSHT 1307 Construction Site Safety and Health	3
OSHT 1320 Energy Industrial Safety	3
Subtotal	15

Second Term	Credit
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
Approved Elective	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.*

Occupational Health and Safety Technology (3OCC-HLTH)

Associate of Applied Science Degree

Central Campus

First Term	Credit
EPCT 1307 Introduction to Environmental, Safety and Health Technology.....	3
OSHT 1309 Physical Hazards Control	3
ENGL 1301 Composition I.....	3
*MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra	3
CHEM 1405 Introductory Chemistry I or CHEM 1411 General Chemistry I	4
PHED Activity	1
Subtotal	17

Second Term Credit

OSHT 1313 Accident Prevention, Inspection, and Investigation	3
OSHT 2320 Safety Training Presentation Techniques.....	3
Speech.....	3
BCIS 1305 Business Computer Applications I or ITSC 1309 Integrated Software Applications	3
CHEM 1407 Introductory Chemistry II or CHEM 1412 General Chemistry II	4

Subtotal 16

Third Term Credit

EPCT 1341 Principles of Industrial Hygiene.....	3
OSHT 2305 Ergonomics and Human Factors in Safety	3
OSHT 1307 Construction Site Safety and Health	3
ENGL 2311 Technical Report Writing.....	3
PHED Activity	1
***Humanities or Fine Arts.....	3

Subtotal 16

Fourth Term Credit

EPCT 2333 Environmental Toxicology	3
OSHT 2401 OSHA Regulations - General Industry	4
OSHT 2309 Safety Program Management.....	3
***Behavioral or Social Sciences.....	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 College Algebra.*

***Students desiring to obtain a baccalaureate degree should take CHEM 1412.*

****Courses which satisfy this requirement are listed in the Humanities and Fine 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	OSHT 1320

**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)

Associate of Applied Science Degree

North Campus

The paralegal curriculum at San Jacinto College District is designed to provide students with the knowledge and skills required to work under the general direction of attorneys to assist them in the completion of legal tasks. 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	Credit
PSYC 1300 Learning Framework	3
LGLA 1307 Introduction to Law and Legal Professions	3
LGLA 1345 Civil Litigation	3
ENGL 1301 Composition I.....	3
BCIS 1305 Business Computer Applications.....	3
Subtotal	15

Second Term	Credit
LGLA 1303 Legal Research	3
LGLA 1305 Legal Writing.....	3
LGLA 1317 Law Office Technology.....	3
ENGL 1302 Composition II	3
MATH 1314 College Algebra or MATH 1333 Contemporary Math for Technical Programs or **Natural Science	3
Subtotal	15

Third Term	Credit
LGLA 1355 Family Law	3
LGLA 2305 Interviewing and Investigating.....	3
LGLA Approved Elective	3
SPCH 1315 Public Speaking or SPCH 1318 Interpersonal Communication or SPCH 1321 Business and Professional Speech	3
*Humanities or Fine Arts.....	3
Subtotal	15

Fourth Term	Credit
LGLA 2313 Criminal Law and Procedure.....	3
LGLA 1353 Wills, Trusts and Probate Administration.....	3
LGLA Approved Elective	3
LGLA Approved Elective	3
LGLA 2388 Internship - Paralegal/Legal Assistant	3
Subtotal	15

Associate of Applied Science Degree Total **60**
External Learning Experience: LGLA 2388

Approved Electives:

LGLA 1351	LGLA 2303	LGLA 1343	LGLA 2309
LGLA 1349	LGLA 2311	LGLA 1359	LGLA 2323
LGLA 1391	LGLA 2335		

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

** Students must be TSI complete in order to graduate: Math level 7.

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

TECHNICAL PROGRAMS

and high school dual credit students (Dual Credit program at North Campus only) and the Spring semester for evening students.

Application periods are May 1 to July 31 for the Fall semester, and November 1 to January 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.
- 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 of one dose less than 10 years old.
- TB Sjub 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

First Term	Credit
HPRS 1106 Essentials of Medical Terminology	1
PHRA 1301 Introduction to Pharmacy.....	3
PHRA 1305 Drug Classification.....	3
PHRA 1309 Pharmaceutical Mathematics I.....	3
PHRA 1313 Community Pharmacy Practice I	3
Subtotal	13
Second Term	Credit
PHRA 1441 Pharmacy Drug Therapy and Treatment	4
PHRA 1347 Pharmaceutical Mathematics II.....	3
PHRA 1345 Compounding Sterile Preparations and Aseptic Technique	3
PHRA 1349 Institutional Pharmacy Practice.....	3
Subtotal	13
Third Term	Credit
PHRA 2360 Clinical - Institutional Pharmacy.....	3
PHRA 1360 Clinical - Community Pharmacy	3
Subtotal	6
Certificate of Technology Total	32
Capstone Experience: PHRA 2360	

Note: Students must pass each course listed in the certificate for Pharmacy Technician with a grade of C or higher to be eligible to receive a certificate of technology.

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 Campus 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 and a new application form must be completed and submitted to the department.
- 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 the second Monday in January. 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 the first Friday in March.

TECHNICAL PROGRAMS

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)

Associate of Applied Science Degree

South Campus

First Term	Credit
PTHA 1405 Basic Patient Care Skills	4
PTHA 1413 Functional Anatomy	4
ENGL 1301 **Composition I.....	3
PTHA 1201 Profession of Physical Therapy	2
BIOL 2401 **Human Anatomy and Physiology I	4
Subtotal	17

Second Term	Credit
PTHA 2301 Data Collection.....	3
PTHA 1431 Physical Agents	4
PTHA 2409 Therapeutic Exercise	4
BIOL 2402 **Human Anatomy and Physiology II	4
Subtotal	15

PostY1Summer	Credit
PTHA 1191 Special Topics in PTA	1
PTHA 1360 Clinical I - PTA.....	3
PTHA 1321 Clinical Pathophysiology	3
**MATH 1314 College Algebra or MATH 1333 Contemporary.....	3
Subtotal	10

Third Term	Credit
PTHA 2531 Neurological Disorders	5
PTHA 2435 Rehabilitation Techniques	4
PTHA 2239 Professional Issues	2
**ENGL 1302 Composition II or ENGL 2311 Technical Report Writing	3
PHED 1123 **Weight Training.....	1
Subtotal	15

Fourth Term	Credit
PTHA 2460 Clinical II - PTA	4
PTHA 2461 Clinical III - PTA	4
*Humanities or Fine Arts.....	3
PSYC 2301 **General Psychology.....	3
**PHED Activity	1

Subtotal **15**

Associate of Applied Science Degree Total **72**

Capstone Experience: PTHA 2461

** Courses which satisfy this requirement are listed in the Humanities and Fine 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/Fabricator Technician (MPIPEFIT)

Marketable Skills Achievement Award

North Campus

The purpose of the Pipefitting/Fabricator Marketable Skills Achievement Certificate is to prepare completers to enter the construction industry as entry level pipefitters or pipe fabricators. Pipefitters/fabricators fabricate, install, and maintain pipes that carry chemical, acids, and gases. These pipes are mostly used in manufacturing, commercial, and industrial settings. Pipefitters often install and maintain pipe systems in power plants, petrochemical plants, as well as heating and cooling systems in large office buildings. Pipefitters also install pipe systems that move steam under high pressure. They work with construction crews to install piping systems in all industrial manufacturing processes.

First Term	Credit
PFPB 1308 Basic PipeFitting Skills	3
PFPB 2333 PipeFitting: Advanced Fabrication and Installation	3
PFPB 1343 Pipefitting Fabrication and Blueprint Reading	3
PFPB 2332 Advanced Pipefitting Standards, Specifications, and Installation.....	3

Subtotal **12**

Marketable Skills Achievement Award Total **12**

Capstone Experience: PFPB 2333

Pipefitting Technology (CE-PIPEFT)

Continuing Education Certificate

Central and North Campuses

	Contact Hours
PFPB 1008 Basic Pipefitting Skills	64
PFPB 1043 Pipefitting Fabrication and Blueprint Reading.....	64
PFPB 2032 Pipefitting Fabrication and Blueprint Reading.....	64
PFPB 2033 Pipefitting, Advanced Fabrication and Installation.....	64

Certificate of Technology Total **256**

Capstone Experience: PFPB 2033

Plumbing and Pipefitting

Plumbing and Pipefitting Technology

Continuing Education Certificate North Campus

	Contact hours
PFPB 1003 Basic Plumbing Skills (Plumbing I).....	72
PFPB 1001 Basic Pipefitting: Installation and Rigging (Plumbing IIA)	72
PFPB 1071 Plumbing Standards for Water Supplies (Plumbing IIB).....	72
PFPB 2033 Pipefitting: Advanced Fabrication and Installation (Plumbing IIIA)	72
PFPB 2071 Installation and Repair of Potable Water Systems (Plumbing IIIB).....	72
PFPB 2032 Pipefitting Standards, Specifications, and Installation (Plumbing IVA)	72
PFPB 2031 Advanced Technologies and Specialized Applications for Piping Trades (Plumbing IVB).....	72
Certificate of Technology Total	504
Capstone Experience: PFPB 2031	

Process Technology

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.

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 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.

Process Technology (4PROT)

Certificate of Technology

Central Campus

First Term	Credit
PTAC 1302 Introduction to Process Technology	3
PTAC 1308 Safety, Health, and Environment I.....	3
PTAC 1410 Process Technology I - Equipment	4
SCIT 1414 Applied General Chemistry I	4
PTAC 2314 Principles of Quality	3
Subtotal	17

Second Term	Credit
CTEC 1401 Applied Petrochemical Technology	4
PTAC 1332 Process Instrumentation I	3
PTAC 2420 Process Technology II - Systems	4
PTAC 2438 Process Technology III - Operations	4
PTAC 2446 Process Troubleshooting	4
Subtotal	19

Certificate of Technology Total **36**

Verification of workplace competencies.

Capstone Experience: PTAC 2438

Process Technology (3PROT)

Associate of Applied Science Degree

Central Campus

First Term	Credit
PTAC 1302 Introduction to Process Technology	3
PTAC 1308 Safety, Health, and Environment I.....	3
ITSC 1309 Integrated Software Applications I or BCIS 1305 Business Computer Applications	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra.....	3
Speech.....	3
Subtotal	15

Second Term	Credit
PTAC 1410 Process Technology I - Equipment	4
PTAC 1332 Process Instrumentation I	3
SCIT 1414 Applied General Chemistry I	4
ENGL 1301 Composition I.....	3
ELPT 1311 Basic Electrical Theory.....	3
Subtotal	17

Third Term	Credit
PTAC 2420 Process Technology II - Systems	4
PTAC 2314 Principles of Quality	3
CTEC 1401 Applied Petrochemical Technology	4
ENGL 2311 Technical Report Writing or ENGL 1302 Composition II.....	3
Subtotal	14

TECHNICAL PROGRAMS

Fourth Term	Credit
PTAC 2438 Process Technology III - Operations	4
PTAC 2446 Process Troubleshooting	4
CTEC 2387 Internship Chemical Technology/Technician or HPRO 1311 Human Relations or PTRT 1301 Introduction to Petroleum Industry.....	3
*Humanities or Fine Arts.....	3
*Behavioral or Social Sciences.....	3
Subtotal	17

Associate of Applied Science Degree Total **63**
Verification of workplace competencies.
Capstone Experience: PTAC 2438

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

Chemical Lab Technician Specialty (3PROT-CHM)

Associate of Applied Science Degree
Central Campus

First Term	Credit
PTAC 1302 Introduction to Process Technology	3
PTAC 1308 Safety, Health, and Environment I.....	3
PTAC 2446 Process Troubleshooting	4
CHEM 1411 General Inorganic Chemistry I	4
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra.....	3
Subtotal	17

Second Term	Credit
CHEM 1412 General Inorganic Chemistry II	4
PTAC 1410 Process Technology I - Equipment	4
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I.....	3
*Humanities or Fine Arts.....	3
PTAC 1332 Process Instrumentation I	3
PHED Activity.....	1
Subtotal	18

Third Term	Credit
PTAC 2420 Process Technology II - Systems	4
CHEM 2423 Organic Chemistry I	4
ENGL 1301 Composition I.....	3
PTAC 2314 Principles of Quality	3
*Behavioral or Social Science.....	3
PHED Activity.....	1
Subtotal	18

Fourth Term	Credit
Approved Elective.....	3
PTAC 2438 Process Technology III - Operations	4
CHEM 2425 Organic Chemistry II	4
ENGL 1302 Composition II or ENGL 2311 Technical Report Writing	3
Speech 1318 Interpersonal Communications or SPCH 1321 Business and Professional Speech.....	3
Subtotal	17

Associate of Applied Science Degree Total **70**
Verification of workplace competencies.
Capstone Experience: PTAC 2438

Approved Electives

BMGT 1301 CTEC 2386 CTEC 2387 HPRO 1311
 PTRT 1301

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

Process Technology Power Generation Technician Specialty (4PROT-PWRG)

Certificate of Technology

Central Campus

First Term	Credit
ELMT 2351 Power Generation Fundamentals.....	3
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I.....	3
PTAC 1410 Process Technology 1 Equipment	4
OSHT 1320 Energy Industrial Safety.....	3
Subtotal	13

Second Term	Credit
PTAC 1332 Process Instrumentation I	3
CBFM 1307 Boiler Operation.....	3
INMT 2303 Pumps, Compressors & Mechanical Drives.....	3
CTEC 2386 Internship -Chemical Technology/Technician or PTAC 2446 Process Troubleshooting.....	3
Subtotal	12

Process Technology Power Generation
Certificate of Technology Total **25**
Capstone Experience: CTEC 2386 or PTAC 2446

Process Technology Power Generation Technician Specialty (3PROT-PWRG)

Associate of Applied Science Degree

Central Campus

First Term	Credit
ENER 1350 Overview of Energy Industry	3
ELMT 2351 Power Generation Fundamentals.....	3
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra	3
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I.....	3
PHED Activity	1
OSHT 1320 Energy Industrial Safety	3

Subtotal **16**

Second Term	Credit
ENGL 1301 Composition I.....	3
PHED Activity	1
ENER 1330 Basic Mechanical Skills for Energy	3
ELPT 1215 Electrical Calculations I.....	2
PTAC 1410 Process Technology 1 Equipment	4
PTAC 1332 Process Instrumentation I	3

Subtotal **16**

Third Term	Credit
*Behavioral or Social Sciences	3
SCIT 1418 Applied Physics or CTEC 1401 Applied Petrochemical Technology	4
SPCH 1321 Business & Professional Speech	3
INMT 2303 Pumps, Compressors & Mechanical Drives.....	3
EPCT 1349 Environmental Regulations Interpretation & Applications	3

Subtotal **16**

Fourth Term	Credit
CBFM 1307 Boiler Operation	3
PTAC 2336 Process Instrumentation II	3
ENGL 2311 Technical Report Writing.....	3
CTEC 2386 Internship-Chemical Technology/Technician or PTAC 2446 Process Troubleshooting.....	3
Humanities or Fine Arts.....	3

Subtotal **15**

Associate of Applied Science Degree Total **63**

Capstone Experience: PTAC 2446 or CTEC 2386

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

Real Estate

Real Estate (6REAL)

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	Credit
RELE 1201 Principles of Real Estate I.....	2
RELE 1211 Law of Contracts	2
RELE 1238 Principles of Real Estate II	2
RELE 1300 Contract Forms and Addenda.....	3
RELE 1319 Real Estate Finance.....	3
RELE 2301 Law of Agency	3

Subtotal **15**

Occupational Certificate Total **15**

Capstone Experience: RELE 1300

Sales Requirements (after Sept. 1, 1994; amended Jan. 1, 2002; amended January 1, 2006, amended September 1, 2012): 14 semester hours. Amended January 1, 2008, amended January 1 2012)

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:

RELE 1201	RELE 1211	RELE 1238	RELE 1300
RELE 1303	RELE 1307	RELE 1309	RELE 1319
RELE 1321	RELE 1325	RELE 2301	RELE 2331

Related Courses Acceptable Toward Broker Licensure can be found on the TREC website <http://www.trec.texas.gov>

TECHNICAL PROGRAMS

TECHNICAL PROGRAMS

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	Credit
RELE 1201 Principles of Real Estate I.....	2
RELE 1211 Law of Contracts	2
RELE 1238 Principles of Real Estate II	2
RELE 1300 Contract Forms and Addenda.....	3
RELE 1319 Real Estate Finance.....	3
RELE 2301 Law of Agency	3
Subtotal	15

Second Term	Credit
BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I.....	3
RELE 1321 Real Estate Marketing or MRKG 2333 Principles of Selling.....	3
Approved Real Estate Elective	3
Approved Real Estate Elective	3
RELE 2366 Practicum - Real Estate or RELE 2367 Practicum - Real Estate.....	3
Subtotal	15

Certificate of Technology Total **30**

Capstone Experience: RELE 2366 or RELE 2367

Approved Real Estate Electives

RELE 1303	RELE 1307	RELE 1309	RELE 1325
RELE 2331			

No course may be repeated for credit

Real Estate (3REAL)

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	Credit
RELE 1201 Principles of Real Estate I.....	2
RELE 1211 Law of Contracts	2
RELE 1238 Principles of Real Estate II	2
RELE 1300 Contract Forms and Addenda.....	3
RELE 1319 Real Estate Finance.....	3
RELE 2301 Law of Agency	3
Subtotal	15

Second Term **Credit**

BCIS 1305 Business Computer Applications or ITSC 1309 Integrated Software Applications I.....	3
RELE 1321 Real Estate Marketing or MRKG 2333 Principles of Selling.....	3
RELE 1325 Real Estate Mathematics	3
*Behavioral or Social Science.....	3
RELE 2366 Practicum (or Field Experience) - Real Estate.....	3

Subtotal **15**

Third Term **Credit**

RELE 1307 Real Estate Investments or 1309 Real Estate Law or BUSI 2301 Business Law I.....	3
ENGL 1301 Composition I.....	3
RELE 1303 Real Estate Appraisal	3
*Humanities or Fine Arts.....	3
SPCH 1315 Public Speaking or 1321 Business and Professional Speech.....	3

Subtotal **15**

Fourth Term **Credit**

ACNT 1303 Introduction to Accounting I or ACCT 2301 Accounting Principles I.....	3
RELE 2331 Real Estate Brokerage.....	3
ENGL 1302 English Composition II or 2311 Technical Report Writing or BUSI 1304 Business Report Writing and Correspondence.....	3
MATH 1333 Contemporary Mathematics for Tech or MATH 1314 College Algebra or higher.....	3
RELE 2367 Practicum (or Field Experience) - Real Estate.....	3

Subtotal **15**

Associate of Applied Science Degree Total **60**

Capstone Experience: RELE 2367

* Courses which satisfy this requirement are listed in the Humanities and Fine 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

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 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.

Objectives

Upon completion of the program offered by the department of respiratory care, the student should be able to:

1. Utilize patient care processes and scientific principles to provide respiratory care to patients in health care facilities.
2. Participate as a contributing member of the health care team.
3. Assume personal responsibility for continued learning in order to maintain professional competency and promote the advancement of the field of respiratory therapy.
4. Successfully complete the credentialing examinations administered by the National Board for Respiratory Care.

Program Admission Criteria

Students who apply for admission to the department of respiratory care will be selected on the basis of their coursework completed and their grade point average.

Applicants must complete 10 semester hours as specified below with at least a B average in the three courses and the grade in each of those courses must be a C or better.

BIOL 2401 or BIOL 2402, and
ENGL 1301 or ENGL 1302, and
MATH 1314 or MATH 1333 or higher level math

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, physician's assistant or nurse practitioner and documentation of updated immunizations. During the first semester in the program, the student will be required to have a drug screening. 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 request readmission into the program, the student must submit a written petition to the Respiratory Care Admission Committee. If readmission is granted, the student must satisfy the readmission criteria specified by the Committee in order to continue in the program.

All students should take the required academic foundation courses in sequence along with professional coursework.

Applicants to the respiratory care program will be notified by mail or e-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

Pre-requisite	Credit
BIOL 2401 Human Anatomy and Physiology I	4
*MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra or higher.....	3
ENGL 1301 Composition I.....	3
Subtotal	10
First Term	Credit
HPRS 1106 Essentials of Medical Terminology	1
RSPT 1325 Respiratory Care Sciences	3
RSPT 1340 Advanced Cardiopulmonary Anatomy and Physiology	3
RSPT 1429 Respiratory Care Fundamentals I	4
BIOL 2402 Human Anatomy and Physiology II	4
PHED Activity.....	1
Subtotal	16

TECHNICAL PROGRAMS

Second Term	Credit
RSPT 1267 Respiratory Care Practicum I.....	2
RSPT 2310 Cardiopulmonary Disease.....	3
RSPT 2317 Respiratory Care Pharmacology.....	3
RSPT 1431 Respiratory Care Fundamentals II	4
Subtotal	12
PostY1Summer	Credit
RSPT 2355 Critical Care Monitoring.....	3
RSPT 2167 Respiratory Care Practicum II.....	1
RSPT 2314 Mechanical Ventilation.....	3
Subtotal	7
Third Term	Credit
RSPT 2266 Respiratory Care Practicum III.....	2
RSPT 2353 Neonatal/Pediatric Cardiopulmonary Care.....	3
ENGL 1302 Composition II or ENGL 2311 Technical Report Writing	3
BIOL 2420 Microbiology and Pathology	4
PHED Activity.....	1
Subtotal	13
Fourth Term	Credit
RSPT 2267 Respiratory Care Practicum IV.....	2
RSPT 2258 Advanced Respiratory Care Patient Assessment... 2	2
RSPT 2130 Respiratory Care Examination Preparation	1
PSYC 2301 General Psychology.....	3
Speech.....	3
**Humanities/Fine Arts	3
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 Fine Arts section of the Transfer Core Curriculum.

Note: Course outline is representative of fall entry only. Adjustments will be made for spring entry. For further information concerning respiratory care accreditation, write or call:

CoARC, 1248 Harwood Rd., Bedford, Texas 76021-4244,
817.283.2835 or visit <http://www.coarc.com/>.

Surgical Technology

A criminal background check and 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 HPRS 1106 and HPRS 1171. Permission must be obtained from the department chair in order to enroll in HPRS 1106, Essentials of Medical Terminology and HPRS 1171, Medical Terminology, prerequisite courses. 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. In order for credit earned in a required biology course to be applicable to the Surgical Technology 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 into the 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 College District. The surgical technologists are integral parts of the surgical team who work closely with nurses and surgeons to provide the best possible care for the patient during the intraoperative phase of a surgical procedure. Surgical technologists are responsible for assisting surgeon during surgery by passing instruments and other equipment to the surgeon in a prescribed manner and assisting to maintain sterility throughout the entire procedure.

TECHNICAL PROGRAMS

Surgical Technology (4SURT)

Certificate of Technology

Central Campus

Pre-requisite	Credit
HPRS 1106 Essentials of Medical Terminology	1
HPRS 1171 Medical Terminology - Surgical Technology	1
Subtotal	2

First Term	Credit
SRGT 1471 Anatomy and Physiology for Surgical Technology or BIOL 2401 Human Anatomy and Physiology I and BIOL 2402 Human Anatomy and Physiology II	4
SRGT 1260 Clinical I Surgical Technology/Technologist.....	2
SRGT 1505 Introduction to Surgical Technology	5
SRGT 1509 Fundamentals of Perioperative Concepts and Techniques	5
Subtotal	16

Second Term	Credit
SRGT 1360 Clinical II Surgical Technology/Technologist.....	3
SRGT 1541 Surgical Procedures I	5
HPRS 2200 Pharmacology for Health Professions	2
HPRS 2301 Pathophysiology or BIOL 2420 Microbiology and Pathology or BIOL 2421 Introductory Microbiology	3
Subtotal	13

Third Term	Credit
SRGT 2130 Professional Readiness.....	1
SRGT 1261 Clinical III Surgical Technology/Technologist	2
SRGT 1542 Surgical Procedures II	5
Subtotal	8

Certificate of Technology Total 39
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.

Surgical Technology (3SURT)

Associate of Applied Science Degree

Central Campus

Pre-requisite	Credit
HPRS 1106 Essentials Medical Terminology	1
HPRS 1171 Medical Terminology - Surgical Technology	1
Subtotal	2

First Term	Credit
SRGT 1471 Anatomy and Physiology for Surgical Technology or BIOL 2401 Human Anatomy and Physiology I and BIOL 2402 Human Anatomy and Physiology II	4
SRGT 1505 Introduction to Surgical Technology	5
SRGT 1509 Fundamentals of Perioperative Concepts and Techniques	5
SRGT 1260 Clinical I Surgical Technology/Technologist.....	2
Subtotal	16

Second Term	Credit
SRGT 1360 Clinical II Surgical Technology/Technologist.....	3
SRGT 1541 Surgical Procedures I	5
HPRS 2200 Pharmacology for Health Professions	2
HPRS 2301 Pathophysiology or BIOL 2420 Microbiology or BIOL 2421 Introductory Microbiology	3
Subtotal	13

PostY1 Summer	Credit
SRGT 2130 Professional Readiness.....	1
SRGT 1261 Clinical III Surgical Technology/Technologist	2
SRGT 1542 Surgical Procedures II	5
Subtotal	8

Third Term	Credit
MATH 1333 Contemporary Mathematics for Technical Programs or MATH 1314 College Algebra or higher	3
ENGL 1301 Composition I.....	3
PHED Activity.....	1
Speech.....	3
PSYC 2301 General Psychology.....	3
Subtotal	13

Fourth Term	Credit
ENGL 2311 Technical Report Writing or ENGL 1302 Composition II.....	3
PHED Activity.....	1
*Humanities or Fine Arts.....	3
Free Elective	3
Subtotal	10

Associate of Applied Science Degree Total 62
Capstone Experience: SRGT 1542 and SRGT 1261

Verification of workplace competencies

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

TECHNICAL PROGRAMS

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

First Course

Contact Hours

CVOP 1013 Professional Truck Driving I126

Second Course

CVOP 1040 Professional Truck Driving II120

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.*

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

First Term	Credit
WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW)	5
WLDG 1530 Introduction to Gas Metal Arc Welding (GMAW)	5
Speech.....	3
MATH 1333 Contemporary Mathematics or MATH 1314 College Algebra.....	3
PHED Activity.....	1
Subtotal	17
Second Term	Credit
WLDG 1534 Introduction to Gas Tungsten Arc Welding (GTAW)	5
WLDG 2543 Advanced Shielded Metal Arc Welding (SMAW)	5
ENGL 1301 Composition I.....	3
*Humanities or Fine Arts.....	3
Subtotal	16
Third Term	Credit
WLDG 2506 Intermediate Pipe Welding	5
WLDG 2551 Advanced Gas Tungsten Arc Welding (GTAW)	5
ENGL 2311 Technical Report Writing or ENGL 1302 Composition II.....	3
ITSC 1309 Intergrated Software Applications I or BCIS 1305 Business Computer Applications.....	3
Subtotal	16

Fourth Term	Credit
WLDG 2553 Advanced Pipe Welding	5
*Behavioral or Social Sciences.....	3
METL 1405 Welding Metallurgy I or WLDG 2513 Intermediate Welding Using Multiple Processes or WLDG 2580 Cooperative Education-Welding Technology/Welder	4
PHED Activity.....	1
Subtotal	13

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 Fine Arts and Behavioral and Social Sciences sections of the Transfer Core curriculum.*

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.

First Term	Credit
WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW)	5
WLDG 2506 Intermediate Pipe Welding	5
WLDG 2543 Advanced Shielded Metal Arc Welding (SMAW)	5
WLDG 1534 Introduction to Gas Tungsten Arc Welding (GTAW)	5
WLDG 2553 Advanced Pipe Welding	5
WLDG 2551 Advanced Gas Tungsten Arc (GTAW) Welding ..	5
Subtotal	30

Certificate of Technology Total **30**

Capstone Experience: WLDG 2551

Art-Welding (6WLD-ART)

Occupational Certificate North Campus

First Term	Credit
WLDG 1305 Art Metals	3
WLDG 1308 Metal Sculpture.....	3
WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW)	5
WLDG 1530 Introduction to Gas Metal Tungsten Arc Welding (GTAW)	5
Subtotal	16

Occupational Certificate Total **16**

Capstone Course: WLDG 1530

TECHNICAL PROGRAMS

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.

First Term	Credit
WLDG 1530 Introduction to Gas Metal Arc Welding (GMAW)	5
WLDG 1534 Introduction to Gas Tungsten Arc Welding (GTAW)	5
WLDG 2551 Advanced Gas Tungsten Arc Welding (GTAW) ..	5
Subtotal	15

Second Term	Credit
WLDG 2513 Intermediate Welding Using Multi Processes	5
Approved Elective	4
Subtotal	9

Certificate of Technology Total **24**

External Field Experience: WLDG 2580

Capstone Experience: WLDG 2513

Approved Electives

DFTG 1405	DFTG 2417	NDTE 1410	METL 1405
METL 2435	WLDG 1528	WLDG 2543	
WLDG 2553	WLDG 2580	WLDG 2506	

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	Credit
WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW)	5
WLDG 2506 Intermediate Pipe Welding	5
WLDG 2543 Advanced Shield Metal Arc Welding (SMAW) ...	5
WLDG 2553 Advanced Pipe Welding	5
Subtotal	20

Occupational Certificate Total **20**

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	Credit
WLDG 1528 Introduction to Shielded Metal Arc Welding (SMAW)	5
WLDG 2543 Advanced Shielded Metal Arc Welding (SMAW) 5	
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	5
Subtotal	15

Occupational Certificate Total **15**

External Field Experience: WLDG 2580

Capstone Experience: WLDG 2506 or WLDG 2553 or WLDG 1534

Combination Welding (CE-WLDG)

Continuing Education Certificate

Central and North Campuses

	Contact Hours
WLDG 1028–Introduction to Shielded Metal Arc Welding (SMAW).....	128
WLDG 1034–Introduction to Gas Tungsten Arc Welding (GTAW)	128
WLDG 1035–Introduction to Pipe Welding.....	128
WLDG 2043–Advanced Shielded Metal Arc Welding (SMAW).....	128
WLDG 2051–Advanced Gas Tungsten Arc Welding (GTAW).....	128
WLDG 2053–Advanced Pipe Welding	128

Certificate of Technology Total **768**

Capstone Experience: WLDG 2051

Sheet Metal Welder (CE-WLDSM)

Continuing Education Certificate

Continuing Education

North Campus

	Contact Hours
MCHN 1001–Sheet Metal I	72
MCHN 1049–Sheet Metal II.....	72
MCHN 1071–Sheet Metal IIB	72
MCHN 1053–Sheet Metal III.....	72
MCHN 1072–Sheet Metal IIIB	72
MCHN 2030–Sheet Metal IV	72
MCHN 2071–Sheet Metal IVB.....	72

Certificate of Technology Total **504**

Capstone Experience: MCHN 2071