

# Educational (Academic) Programs

## Selection of Catalog and Campus

### Catalog Selection for Graduation

A student becomes eligible to graduate by completing the degree and/or certificate requirements as set forth in the San Jacinto Community College District Catalog. These graduation requirements change periodically to meet the various needs of transfer universities, business and industry (employers) and/or cancellation of courses and programs. The guidelines listed below have been established to assist students in identifying the specific requirements which apply to their chosen program of study.

San Jacinto College expects that a student will normally graduate under the catalog in effect at the time of the most recent admission. For nursing and other specialized programs, the term of acceptance into the program determines the catalog year. When the elapsed time from initial enrollment to program completion is long, individual courses may have been replaced or canceled. Counselors will assist students in the selection of appropriate courses. Students may consult the new catalog each year to confirm whether their chosen program has been revised or will be replaced or if a new program has been introduced which may be more appropriate for meeting their education objectives.

Students may request graduation under the program requirements of any catalog in effect during their latest period of continuous enrollment, as long as the program remains approved by the Texas Higher Education Coordinating Board. Continuous enrollment is defined as missing no more than one Fall or Spring term at the time of application for graduation. Students should consider the number of unmet courses remaining to be completed in selecting a catalog.

### Campus Selection for Graduation

Students may choose to graduate from the campus of their choice provided:

1. The student has completed course work at the campus chosen.
2. The campus offers the program in which the degree or certificate is sought.

Students who have not completed all course requirements, but have completed the residency requirements for a degree from San Jacinto College may fulfill their course requirements at another regionally accredited institution and transfer the credits to San Jacinto College. The applicable catalog for graduation will be in accordance with the provisions listed above.

Students whose technical program has been discontinued by the College will be provided an opportunity to graduate under a catalog in accordance with the above provisions, provided their graduation dates are within the time period in which the College is authorized by the state to award the degree. Students whose technical programs are discontinued on one campus, but are continued on another campus, are expected to complete their programs on another campus or they may attempt to earn other degrees.

## Core Curriculum

Texas law mandates that all state-supported colleges and universities have a core curriculum consisting of at least 42 hours that will automatically transfer to all Texas public colleges and universities. Embedded within the 42-hour core curriculum are general education student learning outcomes signifying what students learn by earning an A.A. or A.S. degree. Embedded in technical programs, leading to an A.A.S. degree, are 15 hours of general education drawn from courses found in the core curriculum. General education student learning outcomes represent the basic intellectual competencies outlined by the Texas Higher Education Coordinating Board. They include the following:

**READING:** Reading at the college level means the ability to analyze and interpret a variety of printed materials.

**WRITING:** Competency/outcome in writing is the ability to produce clear, correct and coherent prose adapted to purpose, occasion, and audience.

**SPEAKING:** Competence in speaking is the ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience.

**LISTENING:** Listening at the college level means the ability to analyze and interpret various forms of spoken communication.

**CRITICAL THINKING:** Critical thinking embraces methods for applying both qualitative and quantitative skills analytically and creatively to subject matter in order to evaluate arguments and to construct alternative strategies.

**COMPUTER LITERACY:** Computer literacy at the college level means the ability to use computer-based technology in communicating, solving programs, and acquiring information.

If a student successfully completes San Jacinto College's 43-hour core curriculum, that block of courses must be substituted for the receiving institution's core curriculum. A student may not be required to take additional core curriculum courses unless the Texas Higher Education Coordinating Board has approved a larger core for the receiving institution. Students who transfer without completing the core curriculum shall receive academic credit in the core curriculum of the receiving institution for each of the courses that the student has successfully completed in the San Jacinto College core curriculum.

## Transfer Programs

San Jacinto College offers transfer programs for those students who wish to pursue a baccalaureate degree at a four-year or upper-level college or university. Before enrolling in courses, students should discuss their career goals with an educational planner/counselor and explore the requirements for meeting those goals.

Students should consider all options and should define the requirements for each option. Those considerations should include determining whether or not the college or university offers the program of study they plan to pursue if they are eligible for the program, and are able to meet both Enrollment Services and financial requirements.

Students should discuss TSI-required test scores with an educational planner/counselor and understand what they mean and how they may affect the selection of courses. The Course Descriptions section of the Catalog notes that many courses require certain reading, writing, or mathematics skills which are determined by the placement tests students take upon entry.

Counselors are available to help students determine which and how many courses they should take. The normal load in a Spring or Fall term is 15 or 16 credit hours; however, students who work more than 10 hours a week, have family obligations, or commute long distances should take fewer hours.

After talking with an educational planner/counselor, students should consider other steps involved in selecting and completing degree requirements. They should consider taking review courses or college preparatory courses if their background is weak in certain subjects or if a long period of time has passed since they studied a particular subject. Students should take courses in the proper sequence. Some courses have course prerequisites, meaning that certain courses must be completed prior to enrolling in more advanced courses.

Students who have already completed college credit at another college or university prior to enrolling at San Jacinto College must submit official transcripts to the Enrollment Services Office. Students pursuing a degree at San Jacinto College must request that those transcripts be evaluated in order to determine which courses will transfer and apply to the major which they have selected at San Jacinto College.

# Educational (Academic) Programs

## Associate of Arts Degree

The Associate of Arts (A.A.) degree is designed for students who plan to transfer to a four-year or upper-level college or university. This degree includes general education courses such as English, mathematics, history, and government, which are considered to be core requirements for most baccalaureate degree programs. (See the Core Curriculum section.)

Students are encouraged to complete the requirements of a degree at San Jacinto College even if they are planning to transfer to another college or university to complete a baccalaureate degree. One advantage of completing a degree is the fact that this action reflects commitment to a specific educational goal and success in meeting that goal. Earning an associate degree is evidence of taking one definable step beyond a high school diploma or the high school equivalency examination, and it is the minimum educational requirement for employment in certain positions in area businesses and industries.

Listed are the majors from which students may choose for the associate of arts degree at San Jacinto College. Students seeking admission without a major preference should select 1G-STUDY—General Studies—as a major. Not all majors available at four-year or

upper-level colleges and universities are available at San Jacinto College; however, students may prepare to transfer to a particular program at an upper-level institution by either (1) completing the core requirements of the associate of arts degree at San Jacinto College and selecting other courses in their major field or (2) selecting courses as specified in the transfer plans developed by San Jacinto College in cooperation with senior institutions to which students transfer. Those plans, which are available in the counseling center on each campus, are designed to prepare students to transfer to a particular four-year or upper-level college or university by specifying the courses required to complete the first two years of a baccalaureate degree in a particular major.

### San Jacinto College Programs Leading to the Associate of Arts Degree

#### Major Codes

The programs are designed for students who plan to attend a four-year or upper-level college after leaving San Jacinto College. These programs lead to an associate of arts degree.

#### Codes ..... Majors ..... Major Courses

1AGRB.....	Agribusiness .....	Any AGRI
1ART.....	Art.....	Any ARTS
1BEHV-SCI....	Behavioral Sciences.....	Any ANTH, PHIL, ..... PSYC or SOCI
1BIOL.....	Biology.....	Any BIOL
1BUSI.....	Business Administration .....	Any BUSI, ..... ECON, ACCT 2301, 2302, ..... or BCIS 1305
1CHEM.....	Chemistry.....	Any CHEM
1CHID.....	Child Development.....	Any TECA, EDUC
1JOUR.....	Communications.....	Any COMM
1COSC.....	Computer Science.....	Any COSC
1CRIJ.....	Criminal Justice.....	Any Academic CRIJ
1DANC.....	Dance.....	Any DANC
1DRAM.....	Drama.....	Any DRAM
1ENGL.....	English.....	Any College-Level ENGL
1ENGR.....	Engineering.....	Any ENGR
1FOR-LANG....	Foreign Language.....	Any CHIN, FREN, ..... GERM, or SPAN
*1G-STUDY....	General Studies.....	Any Academic Courses
1GEOL.....	Geology.....	Any GEOL
1GOVT.....	Government.....	Any GOVT
1HIST.....	History.....	Any HIS
1MATH.....	Mathematics.....	Any College-Level MATH
1MUSI.....	Music.....	Any MUSI, MUAP or MUEN
1MXAM.....	Mexican American Studies	
1HLTH-PE....	Physical Education.....	Any PHED
1PHIL.....	Philosophy.....	Any PHIL
1PHYS.....	Physics.....	Any PHYS
1PSYC.....	Psychology.....	Any PSYC
1SOC-SCI.....	Social Science.....	Any HIST or GOVT
1SOCI.....	Sociology.....	Any SOCI
1SPCH.....	Speech.....	Any SPCH
1VIDEO-FLM...	Video and Film Production .....	COMM or DRAM

• Students seeking admission without a major preference should select 1G-STUDY—General Studies—as a major.

# Educational (Academic) Programs

<b>ASSOCIATE OF ARTS DEGREE PLAN</b>	
Required Transfer Core Curriculum	
<b>CORE CURRICULUM REQUIREMENTS:</b>	<b>CREDIT HOURS</b>
Communications (English Rhetoric/Composition): two courses:	6 hours
ENGL: 1301, 1302	
Mathematics: at least one course from the following: (Prerequisites enforced)	3-4 hours
MATH: 1314, 1316, 1324, 1325, 1332, 1342, 2312, 2318, 2320, 2413, 2414, or 2415	
Natural Sciences: at least two courses from the following:	8 hours
BIOL: 1406, 1407, 1408, 1409, 1411, 1413	
CHEM: 1405, 1407, 1411, 1412	
ENVR: 1401	
GEOL: 1403, 1404, 1405, 1447	
PHYS: 1401, 1402, 1411, 1412, 2425, 2426	
Science majors should refer to Associate of Science Degree Plans.	
Humanities or Fine Arts: at least two courses from the following:	6 hours
A Humanities—one course from the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351 or PHIL 1301, 2306	
B. Fine Arts—one course from the following: ARTS 1301, 1303, 1304; DANC 2303; DRAM 1310, 2366; MUSI 1306, 1307 (formerly 1308 & 1309,) 1310	
Behavioral and Social Sciences: at least five courses from the following:	15 hours
A. U.S. History—two courses from the following: HIST 1301, 1302, 2301, 2327, 2328	
B. Political Science—two courses from the following: GOVT 2301, 2302	
C. Behavioral and Social Sciences—one course from the following: ANTH 2302, 2346, 2351; ECON 2301, 2302; GEOG 1301, 1303; GOVT 2304; HIST 2311, 2312; PSYC 2301; SOCI 1301, 2319	
Oral Communications: at least one course from the following:	3-4 hours
CHIN 1411, 1412, 2311, 2312; FREN 1411, 1412, 2311, 2312; GERM 1411, 1412, 2311, 2312; SPAN 1411, 1412, 2311, 2312; SPCH 1315, 1318, 1321, 2333, 2335	
Physical Education: two activity courses	2 hours
	<b>43-45 hours</b>
<b>Courses in the Major:</b> <i>(may include courses which satisfy core curriculum requirements; must be academic courses)</i>	<b>12 hours</b>
<b>Electives:</b> <i>(student's choice of any college-level course, except PHED activity courses)</i>	<b>5-6 hours</b>
<b>Total Credit Hour Requirements for the Associate of Arts Degree</b>	<b>61 hours</b>
<b>Additional Requirements for the Associate of Arts Degree</b>	
<b>Computer Literacy</b>	
Students must demonstrate basic skill in the use of computers by submitting verification of one of the following:	
1. Credit in one of these courses or equivalent transfer credit: BCIS 1305 or ITSC 1309	
2. Continuing Education (CEU) credit in a computer applications course	
3. High school credit in a computer applications course	
4. Passing grade on San Jacinto Community College District Computer Literacy Examination	

# Educational (Academic) Programs

## Field of Study

Field of study curricula were mandated in Senate Bill 148 of the 75th Texas Legislature (1997). Core curricula and field of study curricula are intended to facilitate free transferability of lower-division academic courses among Texas public colleges and universities, if a student successfully completes a field of study curriculum. Fields of study are developed by the Texas Higher Education Coordinating Board, but for all majors. The block of courses in the field of study may be transferred to a general academic teaching institution in Texas and must be substituted for that institution's lower-division (freshman and sophomore level) requirements for the degree program in that field of study. The student shall receive full academic credit toward the degree program for the block of courses transferred.

A student who transfers from one institution of higher education to another, without completing all courses in the field of study curriculum at the sending institution, shall receive academic credit in the field of study curriculum of the receiving institution for each of the courses that the student has successfully completed. Following receipt of credit for these courses, the student may be required to satisfy the remaining course requirements in the field of study curriculum at the receiving institution. A student concurrently enrolled at more than one institution of higher education shall follow the field of study curriculum requirements of the institution at which the student is classified as a degree-seeking student.

The academic A.A. and A.S. degree plans are designed to allow smooth transfer into a baccalaureate degree program at a senior institution. The Texas Higher Education Coordinating Board developed selected Fields of Study for specific academic majors. In general, a student planning to complete a baccalaureate degree in one of these areas is best served by pursuing the

Associate Field of Study A.A. or A.S. degree plans. A separate degree plan has been provided for each of the currently approved field of study options under the Associate of Arts or Associate of Science degrees including:

### Field of Study Curriculum for Business

The A.A. in Business Field of Study curriculum has been adopted to meet the needs of those students wishing to transfer into a B.B.A. degree program at a senior institution. The curriculum would also apply to institutions that award the Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) degree with a major in business, including all business specializations.

#### Specified Core Courses

ECON 2301	Principles of Macroeconomics
MATH 1325	Calculus with Applications
SPCH 1315 or SPCH 1321 (preferred)	Public Speaking or Business and Professional Speech

#### Courses in Major

ECON 2302	Principles of Microeconomics
BCIS 1305	Business Computer Applications
ACCT 2301	Accounting Principles I
ACCT 2302	Accounting Principles II

A total of six additional credit hours of business-related lower-division course work may be transferred by local agreement between institutions or required by the receiving institution, as long as the additional credit does not duplicate any other requirement within the field of study curriculum.

Degree programs in Information Systems, Computer Information Systems, and Management Information Systems may require additional courses and/or demonstrated proficiency in computer programming.

International business and other business programs with a specific international focus may require additional courses and/or demonstrated proficiency in foreign language.

Joint degree programs in which the degree awarded is a business degree, but the program is jointly offered by a business and a non-business discipline (such as a B.B.A. in Actuarial Science offered jointly by a College of Business and a Department of Mathematics and Statistics) may include some or all of any field of study curricular components of the non-business discipline. If no field of study exists for the non-business discipline, the lower-division courses that are normally required of majors in the non-business discipline should be completed as part of lower-division preparation for upper-division work.

### Field of Study Curriculum for Communications

The A.A. in Communication Field of Study curriculum has been adopted to meet the needs of those students wishing to transfer into a Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) degree at a senior institution. Communication degrees must be flexible and adaptable due to rapidly changing and emerging communication technologies. The Field of Study curriculum provides a framework within which: (1) current students may transfer more easily between state-supported institutions and (2) new communication media degrees may be developed or adapted as the communication technology evolves. The A.A. in Communications would be appropriate for students interested in majoring in (1) Advertising or Public Relations, (2) Journalism or Mass Communications, (3) Radio and Television Broadcasting or Broadcast Journalism or (4) General Communications; Communication Studies; Speech Communication; Speech and Rhetorical Studies; or Organizational Communications.

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## Courses in Major

COMM 1307	Mass Communications
COMM 2311	Reporting I
COMM 2315	Reporting II
COMM 2327	Principles of Advertising
COMM 1318	Photography I

## Field of Study Curriculum for Computer Science

The A.S. in Computer Science Field of Study curriculum has been adopted to meet the needs of those students wishing to transfer into a Bachelor of Science (B.S.) in Computer Science at a senior institution.

## Specified Core Courses

MATH 2413	Calculus I
PHYS 2425	University Physics I
PHYS 2426	University Physics II

## Courses in Major

COSC 1336	Programming Fundamentals I
COSC 1337	Programming Fundamentals II
COSC 2325	Computer Organization and Machine Language
COSC 2336	Programming Fundamentals III

## Field of Study Curriculum for Criminal Justice

The A.A. in Criminal Justice Field of Study curriculum has been designed to meet the needs of those students wishing to transfer into a Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) with a major in criminal justice at a senior institution, including all criminal justice specializations. Up to a total of six additional credit hours of criminal justice-related lower-division course work may be transferred by local agreement or required by the receiving institution, as long as the additional credit does not duplicate any other requirement within the field of study curriculum.

## Courses in Major

CRIJ 1301	Introduction to Criminal Justice
CRIJ 1306	Court Systems & Practices
CRIJ 1310	Fundamentals of Criminal Law
CRIJ 2313	Correctional Systems & Practices
CRIJ 2328	Police Systems & Practices

## Field of Study Curriculum for Engineering

The A.S. in Engineering Field of Study curriculum has been designed to promote maximum transferability for students while still preserving appropriate curricular diversity for institutions. (*Note:* The field of study curriculum contains no field-specific courses for the various branches of engineering.)

## Specified Core Courses

MATH 2413	Calculus I
MATH 2414	Calculus II
PHYS 2425	University Physics I
PHYS 2426	University Physics II

## Courses in Majors

MATH 2414	Calculus II
MATH 2415	Calculus III
*ENGR 2301	Mechanics I
*ENGR 2302	Mechanics II
*MATH 2318	Linear Algebra
*MATH 2320	Differential Equations
*CHEM 1412	General Chemistry II

*\*To be taken only if required by specific programs at transfer institutions.*

If a course is not listed as a field of study course, a student can still transfer the course if there is a local agreement between the sending and receiving institutions.

The content areas of the field of study courses are from mathematics, science and engineering. For a number of students, credits in some of these courses would also satisfy components of the core curriculum.

Courses contained in the field of study curriculum for engineering will transfer freely among Texas public institutions of higher education if the program of the receiving institution requires them. Receiving institutions may, however, require transfer students to successfully complete courses that are not part of this field of study curriculum, if completion of those courses

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is required of all students to receive a baccalaureate degree in engineering. In addition, the receiving institution can specify minimum acceptable grades for courses accepted in transfer.

## Field of Study Curriculum for Mexican American Studies

The following set of fully-transferable courses, totaling 18 semester credit hours, has been adopted as a field of study for students seeking a bachelor's degree in Mexican-American Studies.

### Courses in Majors

HUMA 1305	Introduction to Mexican-American Studies
HIST 2328	Mexican-American History II
GOVT 2311	Mexican-American Politics
HUMA 1311	Mexican-American Fine Arts Appreciation

### Specified Core Courses

HIST 2327	Mexican-American History I
ENGL 2351	Mexican-American Literature
SPAN 2312	Spanish IV

## Field of Study Curriculum for Music

The A.A. in Music Field of Study curriculum has been designed to apply to the bachelor of music (B.M.) degree, but may also be applied to the bachelor of arts (B.A.), bachelor of music education (B.M.Ed.) or other baccalaureate-level music degrees as deemed appropriate by the awarding institution.

### Courses in Majors

Course	Semester Credit Hours
Ensemble (MUEN)	4
Applied Study (MAUP)	8
Theory/Aural Skills (MUSI)	16
Music Literature (MUSI 1308)	3

The field of study curriculum shall consist of 27 to 35 lower-division credit hours (31 without the keyboard course described below) that are fully transferable. Transfer of credit in ensemble, applied study and theory/aural skills shall be on a course-for-course basis.

### Keyboard (Piano) Competency

Because keyboard (piano) competency is a requirement for most baccalaureate degrees in music, up to four additional credit hours of course work pertaining to keyboard (piano) may transfer by agreement between institutions. Keyboard competency courses approved for transfer are courses in group piano or applied lessons that concentrate specifically on skills development for passing keyboard proficiency examinations. Keyboard courses that concentrate primarily on performance literature are not considered to be keyboard competency courses for the purposes of this field of study. Completion of courses leading to keyboard proficiency does not necessarily satisfy the established proficiency requirement at a receiving institution.

## Competency, Proficiency and Diagnostic Assessment

Transferring students who have completed the field of study curriculum must satisfy the competency and proficiency requirements of the receiving institution. Transferring students shall not be required to repeat courses transferred as part of the field of study curriculum. However, diagnostic assessment of transfer students is permissible if the receiving institution routinely conducts diagnostic assessment of native students at the same point in the program of study.

### Courses for Specific Degree Programs

Completion of the field of study curriculum shall not prevent a receiving institution from requiring additional lower-division courses that may be necessary for specific degree programs. Courses selected for inclusion in the field of study curriculum are those considered to be common to lower-division study for most music degrees. Receiving institutions may require transfer students in specialized programs (e.g., jazz studies, performance, composition, music therapy, etc.) to take additional degree-specific lower-division courses that are not included in the field of study curriculum.

### Full Academic Credit

Academic credit shall be granted on a course-for-course basis in the transfer of theory/aural skills, applied music and ensemble courses and will be accepted at the credit-hour level of the receiving institution. Full academic credit shall be granted on the basis of comparable courses completed, not on specific numbers of credit hours accrued.

### General Education Courses

In addition to the course work listed above, the maximum recommended transfer credit from the general education core curriculum is 42 semester-credit hours. Students shall complete the general education core curriculum in effect at the institution that will grant the baccalaureate degree.

## Associate of Science Degree

The Associate of Science Degree (A.S.) is designed for students who plan to transfer to a four-year or upper-level college or university and major in mathematics, one of the sciences (biology, chemistry, geology, physics, biotechnology, or related field), engineering, computer science, or a baccalaureate degree in nursing. (See the Core Curriculum and Field of Study sections.) The associate of science degree differs from an associate of arts degree in the amount or level of mathematics and science required for degree completion. A minimum of 12 hours of mathematics or science beyond the core requirement will be required for the degree. Please note the Field of Study A.S. degree options have state-required courses.

Students seeking an associate of science degree should take courses designed for majors rather than courses for non-majors.

Students are encouraged to complete the requirements of an associate degree before transferring to a senior college or university to complete a baccalaureate degree. Earning an associate degree is evidence of taking one definable step beyond a high school diploma or the high school equivalency examination, and it is the minimum educational requirement for employment in certain positions in area businesses and industries.

Listed are the majors available under the associate of science degree at San Jacinto College. Not all majors available at four-year or upper-level colleges and universities are available at San Jacinto College; however, students may prepare to transfer to a particular program at an upper-level institution by either (1) completing the core requirements at San

Jacinto College and selecting additional mathematics and science courses in their major field or (2) selecting courses as specified in the transfer plans developed by San Jacinto College in cooperation with specific senior institutions. Those plans, which are available in the student development center on each campus, are designed to prepare students to transfer to a particular four-year or upper-level college or university by specifying the courses which are required to complete the first two years of a baccalaureate degree in a particular major.

### San Jacinto College Programs leading to the Associate of Science Degree

#### Major Codes

These programs are designed for students who plan to attend a four-year or upper-level college after leaving San Jacinto College. These programs lead to an associate of science degree.

#### Codes .....Majors..... Major Courses

2AGRI-AS.....	AS in Agriculture.....	AGRI
2COS-FOS.....	AS in Computer Science.....	COSC
2PHYS-AS..	AS in Physical Science.....	CHEM, GEOL, or PHYS
2MATH-AS.....	AS in Mathematics.....	MATH
2LIFESCI-AS..	AS in Life Science.....	BIOL
2BIOTEC-AS..	AS in Biotechnology.....	BITC or BIOL
2ENVSCI-AS..	AS in Environmental Science.....	BIOL or ENVR

## Associate of Science Degree

San Jacinto College confers the associate of science (A.S.) degree upon students who meet the general and core requirements for graduation:

1. Meet entrance requirements for unconditional admission.
2. Complete at least 61 term credit hours of college-level (non-college preparatory) course work, as prescribed by the degree, including a maximum of two term hours of physical education activity courses. Scholarship athletes may apply up to two hours of varsity sports toward free electives in addition to the basic physical education requirement. Students who are excused from physical education because of military service or a medical waiver must take additional courses to replace the two hours toward the minimum required hours for the degree.
3. Have a minimum cumulative grade point average of at least 2.0 (C average) on all college-level course work completed at San Jacinto College. The Graduation GPA is displayed on the CAPP Graduation Check.
4. Meet the provisions as described in the section titled Transfer of Credit when transfer credit is to be applied toward a degree.
5. Have at least 24 term hours of college-level credit earned at San Jacinto College, not including credit by examination.
6. Make formal application for graduation at the enrollment services office. (See Calendar for deadline dates.)
7. Complete the required transfer core curriculum and specified courses which comprised the major component for the degree.
8. Satisfy the computer literacy requirements.

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## ASSOCIATE OF SCIENCE IN BIOTECHNOLOGY (2BIOT-AS)

CORE CURRICULUM REQUIREMENTS:		CREDIT HOURS
Communications (English Rhetoric/Composition): two courses:		6 hours
ENGL:	1301, 1302	
Mathematics: at least one course from the following: (Prerequisites enforced)		3-4 hours
MATH:	1314, 1316, 1324, 1325, 1332, 2312, 2318, 2320, 2413, 2414, or 2415	
Natural Sciences: at least two courses for majors from the following:		8 hours
BIOL:	1406, 1407, 1408, 1409, 1411, 1413	
CHEM:	1405, 1407, *1411, *1412	
GEOL:	1403, 1404, 1405, 1447	
PHYS:	1401, 1402, 1411, 1412, 2425, 2426	
Humanities or Fine Arts: at least two courses from the following:		6 hours
A.	Humanities—one course from the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351 or PHIL 1301, 2306	
B.	Fine Arts—one course from the following: ARTS 1301, 1303, 1304; DANC 2303; DRAM 1310, 2366; MUSI 1306, 1307 (formerly 1308 & 1309,) 1310	
Behavioral and Social Sciences: at least five courses from the following:		15 hours
A.	U.S. History—two courses from the following: HIST 1301, 1302, 2301, 2327, 2328	
B.	Political Science—two courses from the following: GOVT 2301, 2302	
C.	Behavioral and Social Sciences—one course from the following: ANTH 2302, 2346, 2351; ECON 2301, 2302; GEOG 1301, 1303; GOVT 2304; HIST 2311, 2312; PSYC 2301; SOCI 1301, 2319	
Oral Communications: at least one course from the following:		3-4 hours
	CHIN 1411, 1412, 2311, 2312; FREN 1411, 1412, 2311, 2312; GERM 1411, 1412, 2311, 2312; SPAN 1411, 1412, 2311, 2312; SPCH 1315, 1318, 1321, 2333, 2335	
Physical Education: two activity courses		2 hours
		<b>43-45 hours</b>
<b>BIOTECHNOLOGY CONCENTRATION:</b>		
<i>*Specified Core Courses:</i>		
CHEM:	1411 Chemistry I	4 hours
CHEM:	1412 Chemistry II	4 hours
<i>Courses in the major (in addition to the general core science requirements):</i>		<b>12 hours</b>
Students desiring to major in a biotechnology field within a Bachelor of Science degree must meet specific requirements. These requirements vary with the transfer (receiving) institution. Students should see an educational planner/counselor to determine an appropriate selection of major courses and electives.		
BIOL:	1406 General Biology I	BIOL 1411 Botany
BIOL:	1407 General Biology II	BIOL 1413 Zoology
BIOL:	2421 Microbiology	BIOL 2416 Genetics
BIOL:	1414 Introductory to Biotechnology	
<b>Electives:</b> ( <i>student's choice of any college-level course, except PHED activity courses</i> )		<b>6 hours</b>
<b>A.S. in BIOTECHNOLOGY</b>		<b>61-63 hours</b>
<b>Additional Requirements for the Associate of Science in Biotechnology Degree</b>		
<b>Computer Literacy</b>		
Students must demonstrate basic skill in the use of computers by submitting verification of one of the following:		
1. Credit in one of these courses or equivalent transfer credit: BCIS 1305 or ITSC 1309		
2. Continuing Education (CEU) credit in a computer applications course		
3. High school credit in a computer applications course		
4. Passing grade on San Jacinto Community College District Computer Literacy Examination		

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<b>ASSOCIATE OF SCIENCE IN ENVIRONMENTAL SCIENCE (2ENVI-AS)</b>	
<b>CORE CURRICULUM REQUIREMENTS:</b>	<b>CREDIT HOURS</b>
Communications (English Rhetoric/Composition): two courses: ENGL: 1301, 1302	6 hours
Mathematics: at least one course from the following: (Prerequisites enforced) MATH: 1314, 1316, 1324, 1325, 1332, 2312, 2318, 2320, 2413, 2414, or 2415	3-4 hours
Natural Sciences: at least two courses for majors from the following: BIOL: 1406, 1407, 1408, 1409, 1411, 1413 CHEM: 1405, 1407, *1411, *1412 ENVR: 1401 GEOL: 1403, 1404, 1405, 1447 PHYS: 1401, 1402, 1411, 1412, 2425, 2426	8 hours
Humanities or Fine Arts: at least two courses from the following: A Humanities—one course from the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351 or PHIL 1301, 2306 B. Fine Arts—one course from the following: ARTS 1301, 1303, 1304; DANC 2303; DRAM 1310, 2366; MUSI 1306, 1307 (formerly 1308 & 1309,) 1310	6 hours
Behavioral and Social Sciences: at least five courses from the following: A. U.S. History—two courses from the following: HIST 1301, 1302, 2301, 2327, 2328 B. Political Science—two courses from the following: GOVT 2301, 2302 C. Behavioral and Social Sciences—one course from the following: ANTH 2302, 2346, 2351; ECON 2301, 2302; GEOG 1301, 1303; GOVT 2304; HIST 2311, 2312; PSYC 2301; SOCI 1301, 2319	15 hours
Oral Communications: at least one course from the following: CHIN 1411, 1412, 2311, 2312; FREN 1411, 1412, 2311, 2312; GERM 1411, 1412, 2311, 2312; SPAN 1411, 1412, 2311, 2312; SPCH 1315, 1318, 1321, 2333, 2335	3-4 hours
Physical Education: two activity courses	2 hours
<b>43-45 hours</b>	
<b>ENVIRONMENTAL SCIENCE CONCENTRATION:</b>	
<i>*Specified Core Courses:</i>	
CHEM: 1411 Chemistry I	4 hours
CHEM: 1412 Chemistry II	4 hours
<b>Courses in the major:</b>	
ENVR: 1401 Environmental Science I	4 hours
ENVR: 1402 Environmental Science II	4 hours
BIOL: 2406 Environmental Biology	4 hours
GEOL: 1405 Environmental Geology	4 hours
<b>Electives: (student's choice of any college-level course, except PHED activity courses)</b>	
<b>5-7 hours</b>	
<b>A.S. in ENVIRONMENTAL SCIENCE</b>	
<b>61-64 hours</b>	
<b>Computer Literacy</b> Students must demonstrate basic skill in the use of computers by submitting verification of one of the following: 1. Credit in one of these courses or equivalent transfer credit: BCIS 1305 or ITSC 1309 2. Continuing Education (CEU) credit in a computer applications course 3. High school credit in a computer applications course 4. Passing grade on San Jacinto Community College District Computer Literacy Examination	

# Educational (Academic) Programs

## ASSOCIATE OF SCIENCE IN LIFE SCIENCE (2LIFESCI-AS)

CORE CURRICULUM REQUIREMENTS:		CREDIT HOURS
Communications (English Rhetoric/Composition): two courses:		6 hours
ENGL:	1301, 1302	
Mathematics: at least one course from the following: (Prerequisites enforced)		3-4 hours
MATH:	1314, 1316, 1324, 1325, 1332, 2312, 2318, 2320, 2413, 2414, or 2415	
Natural Sciences: at least two courses for majors from the following:		8 hours
BIOL:	1406, 1407, 1408, 1409, 1411, 1413	
CHEM:	1405, 1407, *1411, *1412	
GEOL:	1403, 1404, 1405, 1447	
PHYS:	1401, 1402, 1411, 1412, 2425, 2426	
Humanities or Fine Arts: at least two courses from the following:		6 hours
A.	Humanities—one course from the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351 or PHIL 1301, 2306	
B.	Fine Arts—one course from the following: ARTS 1301, 1303, 1304; DANC 2303; DRAM 1310, 2366; MUSI 1306, 1307 (formerly 1308 & 1309,) 1310	
Behavioral and Social Sciences: at least five courses from the following:		15 hours
A.	U.S. History—two courses from the following: HIST 1301, 1302, 2301, 2327, 2328	
B.	Political Science—two courses from the following: GOVT 2301, 2302	
C.	Behavioral and Social Sciences—one course from the following: ANTH 2302, 2346, 2351; ECON 2301, 2302; GEOG 1301, 1303; GOVT 2304; HIST 2311, 2312; PSYC 2301; SOCI 1301, 2319	
Oral Communications: at least one course from the following:		3-4 hours
	CHIN 1411, 1412, 2311, 2312; FREN 1411, 1412, 2311, 2312; GERM 1411, 1412, 2311, 2312; SPAN 1411, 1412, 2311, 2312; SPCH 1315, 1318, 1321, 2333, 2335	
Physical Education: two activity courses		2 hours
		<b>43-45 hours</b>
<b>LIFE SCIENCE CONCENTRATION:</b>		
<i>*Specified Core Courses: Required in major</i>		
CHEM:	1411 Chemistry I	4 hours
CHEM:	1412 Chemistry II	4 hours
<i>Courses in the major (in addition to the general core science requirements):</i>		<b>12-16 hours</b>
Students desiring to major in a life science discipline within a Bachelor of Science degree must meet specific requirements. These requirements vary with the transfer (receiving) institution. Students should see a counselor to determine an appropriate selection of major courses and electives.		
BIOL:	1406 General Biology I <u>and</u> BIOL 1407 General Biology II	
	<u>OR</u>	
BIOL:	1413 Zoology <u>and</u> BIOL 1411 Botany	
BIOL:	2421 Microbiology	
BIOL:	2416 Genetics	
<b>Electives:</b> ( <i>student's choice of any college-level course, except PHED activity courses</i> )		<b>3-6 hours</b>
<b>A.S. in LIFE SCIENCE</b>		<b>61-64 hours</b>
<b>Additional Requirements for the Associate of Science in Life Science Degree</b>		
<b>Computer Literacy</b>		
Students must demonstrate basic skill in the use of computers by submitting verification of one of the following:		
1. Credit in one of these courses or equivalent transfer credit: BCIS 1305 or ITSC 1309		
2. Continuing Education (CEU) credit in a computer applications course		
3. High school credit in a computer applications course		
4. Passing grade on San Jacinto Community College District Computer Literacy Examination		

# Educational (Academic) Programs

<b>ASSOCIATE OF SCIENCE IN MATHEMATICS (2MATH-AS)</b>	
<b>CORE CURRICULUM REQUIREMENTS:</b>	<b>CREDIT HOURS</b>
Communications (English Rhetoric/Composition): two courses: ENGL: 1301, 1302	6 hours
Mathematics: at least one course from the following: (Prerequisites enforced) MATH: 1314, 1316, 1324, 1325, 1332, 2312, <u>2318</u> , <u>2320</u> , <u>2413</u> , <u>2414</u> , or <u>2415</u> <i>Note: MATH 1324, 1325, and 1332 are not recommended for meeting the core requirement.</i>	3-4 hours
Natural Sciences: at least two courses for majors from the following: BIOL: 1406, 1407, 1408, 1409, 1411, 1413 CHEM: 1405, 1407, 1411, 1412 GEOL: <u>1403</u> , <u>1404</u> , 1405, 1447 PHYS: 1401, 1402, 1411, 1412, 2425, 2426	8 hours
Humanities or Fine Arts: at least two courses from the following: A Humanities—one course from the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351 or PHIL 1301, 2306 B. Fine Arts—one course from the following: ARTS 1301, 1303, 1304; DANC 2303; DRAM 1310, 2366; MUSI 1306, 1307 (formerly 1308 & 1309,) 1310	6 hours
Behavioral and Social Sciences: at least five courses from the following: A. U.S. History—two courses from the following: HIST 1301, 1302, 2301, 2327, 2328 B. Political Science—two courses from the following: GOVT 2301, 2302 C. Behavioral and Social Sciences—one course from the following: ANTH 2302, 2346, 2351; ECON 2301, 2302; GEOG 1301, 1303; GOVT 2304; HIST 2311, 2312; PSYC 2301; SOCI 1301, 2319	15 hours
Oral Communications: at least one course from the following: CHIN 1411, 1412, 2311, 2312; FREN 1411, 1412, 2311, 2312; GERM 1411, 1412, 2311, 2312; SPAN 1411, 1412, 2311, 2312; SPCH 1315, 1318, 1321, 2333, 2335	3-4 hours
Physical Education: two activity courses	2 hours
	<b>43-45 hours</b>
<b>MATHEMATICS CONCENTRATION:</b>	
<i>Courses in the major (in addition to the general core science requirements):</i>	<b>12-16 hours</b>
Students desiring to major in mathematics should see a counselor to determine an appropriate selection of courses within the major as these requirements may vary with the transfer (receiving) institution.	
MATH: 2318 Linear Algebra	3 hours
MATH: 2320 Differential Equations	3 hours
MATH: 2413 Calculus I	4 hours
MATH: 2414 Calculus II	4 hours
MATH: 2415 Calculus III	4 hours
<b>Electives:</b> ( <i>student's choice of any college-level course, except PHED activity courses</i> )	<b>3-7 hours</b>
<b>A.S. in MATHEMATICS</b>	<b>61-64 hours</b>
<b>Additional Requirements for the Associate of Science in Mathematics Degree</b>	
<b>Computer Literacy</b>	
Students must demonstrate basic skill in the use of computers by submitting verification of one of the following:	
1. Credit in one of these courses or equivalent transfer credit: BCIS 1305 or ITSC 1309	
2. Continuing Education (CEU) credit in a computer applications course	
3. High school credit in a computer applications course	
4. Passing grade on San Jacinto Community College District Computer Literacy Examination	

# Educational (Academic) Programs

## ASSOCIATE OF SCIENCE IN PHYSICAL SCIENCE (2PHYS-AS)

CORE CURRICULUM REQUIREMENTS:		CREDIT HOURS
Communications (English Rhetoric/Composition): two courses:		6 hours
ENGL:	1301, 1302	
Mathematics: at least one course from the following: (Prerequisites enforced)		3-4 hours
MATH:	1314, 1316, 1324, 1325, 1332, 2312, 2318, 2320, 2413, 2414, or 2415	
Natural Sciences: at least two courses for majors from the following:		8 hours
BIOL:	1406, 1407, 1408, 1409, 1411, 1413	
CHEM:	1405, 1407, *1411, *1412	
GEOL:	1403, 1404, 1405, 1447	
PHYS:	1401, 1402, 1411, 1412, 2425, 2426	
Humanities or Fine Arts: at least two courses from the following:		6 hours
A.	Humanities—one course from the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351 or PHIL 1301, 2306	
B.	Fine Arts—one course from the following: ARTS 1301, 1303, 1304; DANC 2303; DRAM 1310, 2366; MUSI 1306, 1307 (formerly 1308 & 1309,) 1310	
Behavioral and Social Sciences: at least five courses from the following:		15 hours
A.	U.S. History—two courses from the following: HIST 1301, 1302, 2301, 2327, 2328	
B.	Political Science—two courses from the following: GOVT 2301, 2302	
C.	Behavioral and Social Sciences—one course from the following: ANTH 2302, 2346, 2351; ECON 2301, 2302; GEOG 1301, 1303; GOVT 2304; HIST 2311, 2312; PSYC 2301; SOCI 1301, 2319	
Oral Communications: at least one course from the following:		3-4 hours
	CHIN 1411, 1412, 2311, 2312; FREN 1411, 1412, 2311, 2312; GERM 1411, 1412, 2311, 2312; SPAN 1411, 1412, 2311, 2312; SPCH 1315, 1318, 1321, 2333, 2335	
Physical Education: two activity courses		2 hours
		<b>43-45 hours</b>
PHYSICAL SCIENCE CONCENTRATION:		
<i>*Specified Core Courses:</i>		
CHEM:	1411 Chemistry I	4 hours
CHEM:	1412 Chemistry II	4 hours
<i>Courses in the major (in addition to the general core science requirements):</i>		<b>12-16 hours</b>
CHEM:	2423 Organic Chemistry I	4 hours
CHEM:	2425 Organic Chemistry II	4 hours
GEOL:	1403 Physical Geology	4 hours
GEOL:	1404 Historical Geology	4 hours
PHYS:	1411 Planetary Astronomy	4 hours
PHYS:	1412 Stellar/Galactic Astronomy	4 hours
PHYS:	2425 University Physics I (Prerequisite or Corequisite of MATH 2413 Calculus I)	4 hours
PHYS:	2426 University Physics II (Prerequisite or corequisite of MATH 2414 Calculus II)	4 hours
<b>Electives:</b> ( <i>student's choice of any college-level course, except PHED activity courses</i> )		<b>3 hours</b>
<b>A.S. in PHYSICAL SCIENCE</b>		<b>61-64 hours</b>
Additional Requirements for the Associate of Science in Physical Science Degree		
<b>Computer Literacy</b>		
Students must demonstrate basic skill in the use of computers by submitting verification of one of the following:		
1. Credit in one of these courses or equivalent transfer credit: BCIS 1305 or ITSC 1309		
2. Continuing Education (CEU) credit in a computer applications course		
3. High school credit in a computer applications course		
4. Passing grade on San Jacinto Community College District Computer Literacy Examination		

## Associate Degrees in Education

The Associate of Arts in Teaching degree (A.A.T.) is a Texas Higher Education Coordinating Board-approved collegiate degree program consisting of lower-division courses intended for transfer to baccalaureate programs that lead to initial Texas teacher certification. The A.A.T. degree as defined by the Coordinating Board is fully transferable to all Texas public universities. Because the A.A.T. fulfills the requirements of the field of study curriculum statutes and Coordinating Board rules, all Texas public universities must accept the A.A.T. curricula if they offer the applicable baccalaureate degrees leading to initial teacher certification.

Students who complete the A.A.T. will be required to meet any and all entrance requirements of the receiving university and the educator preparation program, including grade point averages and/or testing requirements.

While the A.A.T. degree was designed for transfer purposes, for those students who decide to “stop out” after completing the A.A.T., this degree meets the No Child Left Behind requirements for paraprofessionals. In addition, completion of the A.A.T. is much like that of an associate of arts or associate of applied science degree in that it may qualify students for work that requires at least an associate’s degree.

Students are encouraged to complete the requirements of the A.A.T. degree at San Jacinto College before transferring to another college or university to complete a baccalaureate degree. Listed are the options within the A.A.T. degree from which students may choose at San Jacinto College.

TECA courses are not included in the A.A.T. degree.

## San Jacinto College Programs Leading to the Associate of Arts in Teaching Degree

### Major Codes

These programs are designed for students who plan to complete an education degree at a four-year or upper-level college after leaving San Jacinto College. These programs lead to an associate of arts in teaching degree.

Codes	Majors
2TEACH-G	EC-6 & 4-8 General Certification Option
2TEACH-8-12	8-12 Certification with Teaching Field or Discipline Concentration
2TEACH-AL	EC-12 All-Level Certificates

### Associate of Arts in Teaching Degree

San Jacinto College confers the Associate of Arts in Teaching (A.A.T.) degree upon students who meet the general and core requirements for graduation:

1. Meet entrance requirements for unconditional admission.
2. Complete at least 61 term credit hours of college-level (non-college preparatory) course work, as prescribed by the degree, including a maximum of two term hours of physical education activity courses. Scholarship athletes may apply up to two hours of varsity sports towards free electives in addition to the basic physical education requirement. Students who graduate as health and education majors only may apply a maximum of four credit hours in any physical education activity courses to their A.A. degree. Students who are excused from physical education because of military service or a medical waiver must take additional courses to replace the two hours toward the minimum required hours for the degree.

3. Have a minimum cumulative grade point average of at least 2.0 (C average) on all college-level course work completed at San Jacinto College. The Graduation GPA is displayed on the CAPP Graduation Check.
4. Meet the provisions as described in the section titled Transfer of Credit when transfer credit is to be applied toward a degree.
5. Have at least 24 term hours of college-level credit earned at San Jacinto College, not including credit by examination.
6. Make formal application for graduation at the enrollment services office.
7. Complete the required transfer core curriculum and one of the degree options and related concentrations for the Associate of Arts in Teaching.\*
8. Satisfy the computer literacy requirements.\*
9. EDUC and TECA Student: Undergo FBI fingerprint and criminal background checks.

*\*See samples of the Associate of Arts in Teaching degree plans and various concentrations.*

# Educational (Academic) Programs

## ASSOCIATE OF ARTS IN EARLY CHILDHOOD

Leading to Initial Texas Teacher Certifications  
Early Childhood Education (1CHID)

CORE CURRICULUM REQUIREMENTS:		CREDIT HOURS
Communications (English Rhetoric/Composition): two courses:		6 hours
ENGL:	1301, 1302	
Mathematics: at least one course from the following: (Prerequisites enforced)		3-4 hours
MATH:	1314, 1316, 1324, 1325, 1332, 2312, 2318, 2320, 2413, 2414, or 2415	
Natural Sciences: at least two courses from the following:		8 hours
BIOL:	1406, 1407, 1408, 1409, 1411, 1413	
CHEM:	1405, 1407, 1411, 1412	
ENVR:	1401	
GEOL:	1403, 1404, 1405, 1447	
PHYS:	1401, 1402, 1411, 1412, 2425, 2426	
Science majors should refer to Associate of Science Degree Plans.		
Humanities or Fine Arts: at least two courses from the following:		6 hours
A.	Humanities—one course from the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351 or PHIL 1301, 2306	
B.	Fine Arts—one course from the following: ARTS 1301, 1303, 1304; DANC 2303; DRAM 1310, 2366; MUSI 1306, 1307 (formerly 1308 & 1309,) 1310	
Behavioral and Social Sciences: at least five courses from the following:		15 hours
A.	U.S. History—two courses from the following: HIST 1301, 1302, 2301, 2327, 2328	
B.	Political Science—two courses from the following: GOVT 2301, 2302	
C.	Behavioral and Social Sciences—one course from the following: ANTH 2302, 2346, 2351; ECON 2301, 2302; GEOG 1301, 1303; GOVT 2304; HIST 2311, 2312; PSYC 2301; SOCI 1301, 2319	
Oral Communications: at least one course from the following:		3-4 hours
	CHIN 1411, 1412, 2311, 2312; FREN 1411, 1412, 2311, 2312; GERM 1411, 1412, 2311, 2312; SPAN 1411, 1412, 2311, 2312; SPCH 1315, 1318, 1321, 2333, 2335	
Physical Education: two activity courses:		2 hours
		<b>43-45 hours</b>
MAJOR CONCENTRATIONS		
Education:		18 hours
EDUC:	1301, 2301	
TECA:	1303, 1311, 1318, 1354	
A.A. for 1CHID Early Childhood Education		61 hours
Additional Requirements for the Associate of Arts in Teaching Degree Plan		
<b>Computer Literacy</b>		
Students must demonstrate basic skill in the use of computers by submitting verification of one of the following:		
1. Credit in one of these courses or equivalent transfer credit: BCIS 1305 or ITSC 1309		
2. Continuing Education (CEU) credit in a computer applications course		
3. High school credit in a computer applications course		
4. Passing grade on San Jacinto Community College District Computer Literacy Examination		

# Educational (Academic) Programs

## ASSOCIATE OF ARTS IN TEACHING DEGREE PLAN

Leading to Initial Texas Teacher Certifications  
EC-6 and 4-8 (2TEACH-G)

CORE CURRICULUM REQUIREMENTS:		CREDIT HOURS
Communications (English Rhetoric/Composition): two courses:		6 hours
ENGL:	1301, 1302	
Mathematics: at least one course from the following: (Prerequisites enforced)		3-4 hours
MATH:	1314, 1316, 1324, 1325, 1332, 2312, 2318, 2320, 2413, 2414, or 2415	
Natural Sciences: at least two courses from the following:		8 hours
BIOL:	1406, 1407, 1408, 1409, 1411, 1413	
CHEM:	1405, 1407, 1411, 1412	
GEOL:	1403, 1404, 1405, 1447	
PHYS:	1401, 1402, 1411, 1412, 2425, 2426	
Humanities or Fine Arts: at least two courses from the following:		6 hours
A.	Humanities—one course from the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, or PHIL 1301, 2306	
B.	Fine Arts—one course from the following: ARTS 1301, 1303, 1304; DANC 2303; DRAM 1310, 2366; MUSI 1306, 1307 (formerly 1308 & 1309,) 1310	
Behavioral and Social Sciences: at least five courses from the following:		15 hours
A.	U.S. History—two courses from the following: HIST 1301, 1302, 2301, 2327, 2328	
B.	Political Science—two courses from the following: GOVT 2301, 2302	
C.	Behavioral and Social Sciences—one course from the following: ANTH 2302, 2346, 2351; ECON 2301, 2302; GEOG 1301, 1303; GOVT 2304; HIST 2311, 2312; PSYC 2301; SOCI 1301, 2319	
Oral Communications: at least one course from the following:		3-4 hours
	CHIN 1411, 1412, 2311, 2312; FREN 1411, 1412, 2311, 2312; GERM 1411, 1412, 2311, 2312; SPAN 1411, 1412, 2311, 2312; SPCH 1315, 1318, 1321, 2333, 2335	
Physical Education: two activity courses:		2 hours
		<b>43-45 hours</b>
ADDITIONAL REQUIREMENTS FOR THE AAT (EC-6 AND 4-8 OPTION)		
Mathematics: two courses in addition to core requirements:		6 hours
MATH:	1350 and 1351	
Science: at least two courses in addition to core requirements from the following:		8 hours
BIOL:	1406, 1407, 1411, 1413	
CHEM:	1411, 1412	
GEOL:	1403, 1404, 1405	
PHYS:	1401, 1402, 2425, 2426	
Education:		6 hours
EDUC:	1301 and 2301	
A.A.T. for EC-6 and 4-8 Option		63-65 hours
Additional Requirements for the Associate of Arts in Teaching Degree Plan		
Computer Literacy		
Students must demonstrate basic skill in the use of computers by submitting verification of one of the following:		
1. Credit in one of these courses or equivalent transfer credit: BCIS 1305 or ITSC 1309		
2. Continuing Education (CEU) credit in a computer applications course		
3. High school credit in a computer applications course		
4. Passing grade on San Jacinto Community College District Computer Literacy Examination		

# Educational (Academic) Programs

## Teaching Field/ Academic Discipline Concentrations for Grades 8-12 Certification:

**8-12 History (2TCH8-HIST) - 12 hours from the following, exclusive of those used to fulfill the general core requirement:**

- HIST 2311 History of Western Civilization Before 1660  
HIST 2312 History of Western Civilization Since 1660  
HIST 2321 World Civilization I  
HIST 2322 World Civilization II  
HIST 1301, 1302, or 2301, if not used to fulfill the requirements of the general core.

**8-12 Social Studies (2TCH8-SSCI) - 12 hours from the following, exclusive of those used to fulfill the general core requirement, and one course from each area:**

- ECON 2301 Principles of Macroeconomics  
ECON 2302 Principles of Microeconomics  
GEOG 1301 Physical Geography  
GEOG 1302 Cultural Geography  
GEOG 1303 World Geography  
GOVT 2304 Introduction to Political Science  
HIST 2311 History of Western Civilization Before 1660  
HIST 2312 History of Western Civilization Since 1660  
HIST 2321 World Civilization I  
HIST 2322 World Civilization II  
HIST 1301, 1302, or 2301, if not used to fulfill the requirements of the general core.

**8-12 Mathematics (2TCH8-MATH) - 12 hours from the following, exclusive of those used to fulfill the general core requirement:**

**Specified Core Courses:**

- CHEM 1411 & 1412 or  
PHYS 1401 & 1402 or  
PHYS 2425 & 2426

**Courses in Major:**

- MATH 1314 College Algebra  
MATH 1316 College Trigonometry  
MATH 1342 Statistics  
MATH 2312 Elementary Functions  
MATH 2318 Linear Algebra  
MATH 2320 Differential Equations  
MATH 2413 Calculus I  
MATH 2414 Calculus II  
MATH 2415 Calculus III

**8-12 Life Sciences (2TCH8-SCIL) - 12 hours from the following, exclusive of those used to fulfill the general core requirement:**

**Specified Core Courses:**

- CHEM 1411 & 1412

**Courses in Major:**

- BIOL 1406 General Biology I  
BIOL 1407 General Biology II  
BIOL 1411 General Botany  
BIOL 1413 General Zoology  
BIOL 2421 Microbiology

**8-12 Physical Sciences (2TCH-SCIP)**

**Specified Core Courses:**

- CHEM 1411 & 1412

**Courses in Major:** 12 hours from the following with at least one from each area:

- CHEM 2423 Organic Chemistry I  
CHEM 2425 Organic Chemistry II  
GEOL 1403 Physical Geology  
GEOL 1404 Historical Geology  
PHYS 1401 College Physics I  
PHYS 1402 College Physics II  
PHYS 1411 Astronomy I: Planetary  
PHYS 1412 Astronomy II: Stellar/Galactic  
PHYS 2425 University Physics I  
PHYS 2426 University Physics II

**8-12 Science (2TCH8-SCI) Specified Core**

**Courses:**

- CHEM 1411 & 1412

**Courses in Major:** 12 hours from the following with at least one from three areas:

- BIOL 1406 General Biology I  
BIOL 1407 General Biology II  
BIOL 1411 General Botany  
BIOL 1413 General Zoology  
CHEM 2423 Organic Chemistry I  
CHEM 2425 Organic Chemistry II  
GEOL 1403 Physical Geology  
GEOL 1404 Historical Geology  
PHYS 1401 College Physics I  
PHYS 1402 College Physics II  
PHYS 1411 Astronomy I: Planetary  
PHYS 1412 Astronomy II: Stellar/Galactic  
PHYS 2425 University Physics I  
PHYS 2426 University Physics II

**8-12 English Language Arts & Reading (2TCH8-ELAR) - 12 hours from the following, exclusive of those used to fulfill the general core requirement:**

- ENGL 2322 Survey of Early British Literature  
ENGL 2323 Survey of Later British Literature  
ENGL 2327 Survey of Early American Literature  
ENGL 2328 Survey of Later American Literature  
ENGL 2332 Survey of Early World Literature  
ENGL 2333 Survey of Later World Literature

**8-12 Computer Science (2TCH8-CSCI)**

- COSC 1336 Programming Fundamentals I  
COSC 1337 Programming Fundamentals II  
COSC 2336 Programming Fundamentals III  
COSC 2325 Digital Computer Architecture & Programming

**8-12 Speech (2TCH8-SPCH) - 12 hours from the following, exclusive of those used to fulfill the general core requirement:**

- SPCH 1315 Public Speaking  
SPCH 1318 Interpersonal Communications  
SPCH 1321 Business and Professional Speech  
SPCH 1342 Voice and Diction  
SPCH 2333 Discussion and Small Group Communication  
SPCH 2335 Argumentation and Debate  
SPCH 2336 Forensics  
SPCH 2341 Oral Interpretation

**8-12 Journalism**

**(2TCH8-JOUR) - 12 hours from the following, exclusive of those used to fulfill the general core requirement:**

- COMM 1307 Mass Communications  
COMM 1318 Beginning Photography  
COMM 1319 Intermediate Photography  
COMM 2309 Editing I  
COMM 2311 Reporting I  
COMM 2315 Reporting II  
COMM 2327 Principles of Advertising

# Educational (Academic) Programs

**8-12 Mathematics & Physics (2TCH8-SCIM) - 12 hours from the following, exclusive of those used to fulfill the general core requirement, with at least one course from each area:**

**Specified Core Courses:**

PHYS 2425 & 2426

**Courses in Major:**

MATH 1314 College Algebra  
MATH 1316 College Trigonometry  
MATH 1342 Statistics  
MATH 2312 Elementary Functions  
MATH 2318 Linear Algebra  
MATH 2320 Differential Equations  
MATH 2413 Calculus I  
MATH 2414 Calculus II  
MATH 2415 Calculus III  
PHYS 1401 College Physics I  
PHYS 1402 College Physics II  
PHYS 2425 University Physics I  
PHYS 2426 University Physics II

**8-12 Foreign Languages (2TCH8-FRNL) - at least 12 hours from the following, exclusive of those used to fulfill the general core requirement, with at least one from each area:**

CHIN 1411 Beginning Chinese I  
CHIN 1412 Beginning Chinese II  
CHIN 2311 Intermediate Chinese I  
CHIN 2312 Intermediate Chinese II  
FREN 1411 Beginning French I  
FREN 1412 Beginning French II  
FREN 2311 Intermediate French I  
FREN 2312 Intermediate French II  
GERM 1411 Beginning German I  
GERM 1412 Beginning German II  
GERM 2311 Intermediate German I  
GERM 2312 Intermediate German II  
SPAN 1411 Beginning Spanish I  
SPAN 1412 Beginning Spanish II  
SPAN 2311 Intermediate Spanish I  
SPAN 2312 Intermediate Spanish II

**8-12 Dance (2TCH8-DANC) - at least 12 hours from the following, exclusive of those used to fulfill the general core:**

DANC 1341 Ballet I  
DANC 1342 Ballet II  
DANC 2341 Ballet III  
DANC 2342 Ballet IV  
DANC 1345 Modern I  
DANC 1346 Modern II  
DANC 2345 Modern III  
DANC 2346 Modern IV  
DANC 2325 Anatomy and Kinesiology

**8-12 Mathematics & Physical Science & Engineering (TCH8-SCIE) - at least 12 hours from the following, exclusive of those used to fulfill the general core requirement with at least one course from each area:**

**Specified Core Courses:**

CHEM 1411 & 1412

**Courses in Major:**

ENGR 2301 Mechanics I  
ENGR 2302 Mechanics II  
ENGR 2304 Computer Programming  
ENGR 2332 Strength of Materials  
MATH 1314 College Algebra  
MATH 1316 College Trigonometry  
MATH 1342 Statistics  
MATH 2312 Elementary Functions  
MATH 2318 Linear Algebra  
MATH 2320 Differential Equations  
MATH 2413 Calculus I  
MATH 2414 Calculus II  
MATH 2415 Calculus III  
PHYS 1401 College Physics I  
PHYS 1402 College Physics II  
PHYS 1411 Astronomy I: Planetary  
PHYS 2425 University Physics I  
PHYS 2426 University Physics II

**8-12 Geography (2TCH8-GEOG - UHCL Transfers Only) - at least 12 hours from the following, exclusive of those used to fulfill the general core requirement, with at least one course from each area:**

GEOG 1301 Physical Geography  
GEOG 1302 Cultural Geography  
GEOG 1303 World Regional Geography  
CRTG 1311 Introduction to Geographic Information Systems

*Please consult with educational planning and counseling for information regarding the college or university to which you plan to transfer.*

# Educational (Academic) Programs

## ASSOCIATE OF ARTS IN TEACHING DEGREE PLAN

Leading to Initial Texas Teacher Certifications  
8–12 with (Teaching Field/Academic Discipline Concentrations) (2TEACH–8–12)

CORE CURRICULUM REQUIREMENTS:		CREDIT HOURS
Communications (English Rhetoric/Composition): two courses:		6 hours
ENGL:	1301, 1302	
Mathematics: at least one course from the following: (Prerequisites enforced)		3-4 hours
MATH:	1314, 1316, 1324, 1325, 1332, 2312, 2318, 2320, 2413, 2414, or 2415	
Natural Sciences: at least two courses from the following:		8 hours
BIOL:	1406, 1407, 1408, 1409, 1411, 1413	
CHEM:	1405, 1407, 1411, 1412	
ENVR:	1401	
GEOL:	1403, 1404, 1405, 1447	
PHYS:	1401, 1402, 1411, 1412, 2425, 2426	
Humanities or Fine Arts: at least two courses from the following:		6 hours
A	Humanities—one course from the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, 2351 or PHIL 1301, 2306	
B.	Fine Arts—one course from the following: ARTS 1301, 1303, 1304; DANC 2303; DRAM 1310, 2366; MUSI 1306, 1307 (formerly 1308 & 1309,) 1310	
Behavioral and Social Sciences: at least five courses from the following:		15 hours
A.	U.S. History—two courses from the following: HIST 1301, 1302, 2301, 2327, 2328	
B.	Political Science—two courses from the following: GOVT 2301, 2302	
C.	Behavioral and Social Sciences—one course from the following: ANTH 2302, 2346, 2351; ECON 2301, 2302; GEOG 1301, 1303; GOVT 2304; HIST 2311, 2312; PSYC 2301; SOCI 1301, 2319	
Oral Communications: at least one course from the following:		3–4 hours
	CHIN 1411, 1412, 2311, 2312; FREN 1411, 1412, 2311, 2312; GERM 1411, 1412, 2311, 2312; SPAN 1411, 1412, 2311, 2312; SPCH 1315, 1318, 1321, 2333, 2335	
Physical Education: two activity courses:		2 hours
		<b>43–45 hours</b>
ADDITIONAL REQUIREMENTS FOR THE AAT (8–12 WITH CONCENTRATIONS)		
Education: two courses in addition to the core requirements from the following:		6 hours
EDUC:	1301 and 2301	
Teaching Field or Academic Discipline Concentration*:		12 hours
	*Please see specific options for specific certification areas on the following two (2) pages.	
A.A.T. for 8–12 with Teaching Area or Discipline Concentration Option		61-63 hours
Additional Requirements for the Associate of Arts in Teaching Degree Plan		
<b>Computer Literacy</b>		
Students must demonstrate basic skill in the use of computers by submitting verification of one of the following:		
1. Credit in one of these courses or equivalent transfer credit: BCIS 1305 or ITSC 1309		
2. Continuing Education (CEU) credit in a computer applications course		
3. High school credit in a computer applications course		
4. Passing grade on San Jacinto Community College District Computer Literacy Examination		

# Educational (Academic) Programs

## Teaching Field/ Academic Discipline Concentrations for EC-12 All-level Certification:

**EC-12 Music (2TCHAL-MUS)** – at this time music students wishing to pursue a music education major should complete the **A.A.-FOS** in Music before transferring to a senior institution.

### **EC-12 Physical Education (2TCHAL-PHE) - 12 hours from the following:**

PHED 1301	Foundations of Physical Education
PHED 1304	Personal/Community Health
PHED 1306	First Aid
PHED 1308	Officiating Major Sports
PHED 1332	Recreational and Elementary Games

### **EC-12 Art (2TCHAL-ART) - 12 hours from the following:**

#### **Specified Core Courses:**

ARTS 1303 Art History I  
or

ARTS 1304 Art History II

#### **Courses in Major:**

ARTS 1311 Design I  
ARTS 1312 Design II  
ARTS 1316 Drawing I  
ARTS 1317 Drawing II  
or any approved  
ARTS courses

### **EC-12 Theatre (2TCHAL-DRA) - 12 hours from the following:**

#### **Specified Core Courses:**

DRAM 1310 Theatre

#### **Courses in Major:**

DRAM 1330 Technical Production  
DRAM 1341 Stage Makeup  
DRAM 1351 Acting I  
DRAM 1352 Acting II  
DRAM 2331 Technical Production II  
DRAM 2336 Voice and Diction  
DRAM 2341 Oral Interpretation  
DRAM 2351 Acting

*Please consult with educational planning and counseling for information regarding the college or university to which you plan to transfer.*

# Educational (Academic) Programs

## ASSOCIATE OF ARTS IN TEACHING DEGREE PLAN

Leading to Initial Texas Teacher Certifications  
EC-12 with (Teaching Field/Academic Discipline Concentrations) (2TEACH-AL)

CORE CURRICULUM REQUIREMENTS:		CREDIT HOURS
Communications (English Rhetoric/Composition): two courses:		6 hours
ENGL:	1301, 1302	
Mathematics: at least one course from the following: (Prerequisites enforced)		3-4 hours
MATH:	1314, 1316, 1324, 1325, 1332, 2312, 2318, 2320, 2413, 2414, or 2415	
Natural Sciences: at least two courses from the following:		8 hours
BIOL:	1406, 1407, 1408, 1409, 1411, 1413	
CHEM:	1405, 1407, 1411, 1412	
GEOL:	1403, 1404, 1405, 1447	
PHYS:	1401, 1402, 1411, 1412, 2425, 2426	
Humanities or Fine Arts: at least two courses from the following:		6 hours
A	Humanities—one course from the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, or PHIL 1301, 2306	
B.	Fine Arts—one course from the following: ARTS 1301, 1303, 1304; DANC 2303; DRAM 1310, 2366; MUSI 1306, 1307 (formerly 1308 & 1309,) 1310	
Behavioral and Social Sciences: at least five courses from the following:		15 hours
A.	U.S. History—two courses from the following: HIST 1301, 1302, 2301	
B.	Political Science—two courses from the following: GOVT 2301, 2302	
C.	Behavioral and Social Sciences—one course from the following: ANTH 2302, 2351; ECON 2301, 2302; GEOG 1301, 1303; GOVT 2304; HIST 2311, 2312; PSYC 2301; SOCI 1301, 2319	
Oral Communications: at least one course from the following:		3-4 hours
	CHIN 1411, 1412, 2311, 2312; FREN 1411, 1412, 2311, 2312; GERM 1411, 1412, 2311, 2312; SPAN 1411, 1412, 2311, 2312; SPCH 1315, 1318, 1321, 2333, 2335	
Physical Education: two activity courses:		2 hours
		<b>43-45 hours</b>
ADDITIONAL REQUIREMENTS FOR THE AAT (EC-12 ALL LEVEL)		
Education: two courses in addition to the core requirements from the following:		6 hours
EDUC:	1301 and 2301	
Teaching Field or Academic Discipline Concentration for All-Level EC-12*:		12 hours
*Please see specific options for specific certification areas on the next page.		
A.A.T. for EC-12 All-Level Concentration Option		61-63 hours
Additional Requirements for the Associate of Arts in Teaching Degree Plan		
<b>Computer Literacy</b>		
Students must demonstrate basic skill in the use of computers by submitting verification of one of the following:		
1. Credit in one of these courses or equivalent transfer credit: BCIS 1305 or ITSC 1309		
2. Continuing Education (CEU) credit in a computer applications course		
3. High school credit in a computer applications course		
4. Passing grade on San Jacinto Community College District Computer Literacy Examination		

## Associate of Applied Science Degree

An Associate of Applied Science (A.A.S.) degree is awarded to students who complete the general requirements listed below, along with the technical curricula requirements as outlined in the Technical Programs section of the Catalog.

1. Meet entrance requirements for unconditional admission.
2. Have a minimum cumulative grade point average of 2.0 (C average) on all college-level course work attempted at San Jacinto College. The Graduation GPA is displayed on the CAPP Graduation Check.
3. Meet the provisions as described in the section titled Transfer of Credit when transfer credit is to be applied toward a degree.
4. Have at least 24 semester hours of college-level credit earned at San Jacinto College.
5. Have two semester hours of physical education activity courses, unless exemption is permitted. (See physical education in the Course Descriptions section for more information). Students who qualify for exemption from physical education activity courses and who do not have at least 62 semester hours of college-level credit must complete such courses or substitute other courses of at least equal credit value if they wish to receive a degree.
6. Make formal application for graduation at the enrollment services office. (See Calendar for deadline dates.)
7. Demonstrate basic skill in the use of computers.\*

*\*All A.A.S. degree plans include one or more courses designed to meet each of the Department of Labor Secretary's Commission on Achieving Necessary Skills (SCANS) requirements. Students successfully completing the curricula requirements of a technical program have passed courses which demonstrate competency in the basic use of computers.*

## Certificate of Technology

The certificate of technology is awarded to students who:

1. Complete the required technical courses in a 24-42 semester credit hour program, with a minimum cumulative grade point average of 2.0 (C average) on all college-level course work attempted at San Jacinto College. The Graduation GPA is displayed on the CAPP Graduation Check.
2. Earn at least one-half of the hours required for the certificate at San Jacinto College. (Refer to the section titled Technical Programs for available options.)
3. Make formal application for graduation at the enrollment services office.

## Occupational Certificate

The occupational certificate is awarded to students who satisfactorily complete the required courses in a 15-23 semester credit hour program.

To receive an occupational certificate upon completion of a semester credit hour program, the student must:

1. Complete the required courses with a minimum cumulative grade point average of 2.0 (C average) on all college-level course work attempted at San Jacinto College. The Graduation GPA is displayed on the CAPP Degree Evaluation.
2. Earn at least one-half of the hours required for the certificate at San Jacinto College. (Refer to the section titled Technical Programs for available options.)
3. Make formal application for graduation at the Enrollment Services Office.

*Note: Completion of the semester credit hour occupational certificate does not qualify students to participate in the commencement ceremony.*

# Educational (Academic) Programs

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## Enhanced Skills Certificate

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The Enhanced Skills Certificate is considered to be a continuation of the associate of applied science degree program. Therefore, in order to qualify for the Enhanced Skills Certificate, the student must:

1. Complete all of the A.A.S. requirements for the degree as well as the additional 6-15 semester credit hours required for the certificate. A course for which credit has been earned may not fulfill a requirement for both the degree and certificate. Each course earned can fulfill only one course requirement in the continuum of courses required, and no single course will count for both degree and certificate purposes. For courses which may be repeated multiple times for credit, the course may be utilized, as appropriate, as many times as credit was earned. Substitution for specified courses required in the enhanced skills certificate is not allowed.
2. Complete all required advanced technical courses at San Jacinto College with a minimum grade of C in each of the advanced courses.
3. Have a minimum cumulative grade point average of 2.0 (C average) on all college-level course work attempted at San Jacinto College. The Graduation GPA is displayed on the CAPP Degree Evaluation.
4. Make formal application for the certificate at the enrollment services office (See the Technical Programs section for available options, and also the procedures listed in the introduction of this Awarding of Degrees and Certificates section).

## Marketable Skills Achievement Award

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A marketable skills achievement award is awarded to students who complete 9-14 semester credit hours in a particular technical field of study. To receive the award, the student must:

1. Complete all requirements as specified for a particular award of specialization (Award requirements may differ. See the section titled Technical Programs for the specific requirements for each certificate.)
2. Make application for the certificate through enrollment services.

## Career Foundation Core

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A Career Foundation Core (CFC) Certificate is a level one certificate. This certificate is based upon the identification of a sequence of WECM courses and learning outcomes that represent a career foundation core within a specific career cluster. A CFC certificate, consisting of at least 24 SCH and no more than 42 SCH, is intended to maximize an individual student's opportunity for immediate exit for employment with options to pursue the program's associate degree or to transfer to another higher education institution or technical college. This certificate also allows a student to pursue a second year in a specific Career Pathway program.

## Continuing and Professional Development Certificate Programs

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A Continuing and Professional Development (CPD) certificate program is a grouping of related Continuing and Professional Development courses which, when successfully completed, provides a level of technical and occupational skills acceptable by the industry standard for that field. A Continuing Education Unit Certificate (CEU) is 360-779 contact hours and has a coherent sequence of technical CEU courses.