

Degree and Certificate Programs

The Office of Educational Services schedules class offerings each semester and chairs the committee that approves all academic and workforce programs offered at FPC. Educational Services in partnership with the FPC Academic Standards and Curriculum Committee reviews program areas on a scheduled timeline and each program's curriculum is revised as needed. This process allows FPC to continually provide three important services to its students: (1) the latest in technology and other workforce programs; (2) the appropriate academic programs needed to further their education; and, (3) the skills needed to broaden their employment opportunities.

General Information

The purpose of the Associate in Arts (A.A.) and the Associate in Science (A.S.) degree programs is to provide students with university-parallel or pre-professional courses, which readily transfer to four-year colleges and universities. Upon completing a degree, FPC students generally transfer to area universities with junior class standing. While the curricula suggested in this *Catalog* will satisfy the requirements of most senior institutions, it is the students' responsibility to identify as early as possible the institution to which they will transfer and to ascertain the specific degree requirements of that institution for the freshman and sophomore years. Students should consult with an FPC advisor on a regular basis to ensure enrollment in courses appropriate to the chosen major field of interest.

Programs

The Associate in Applied Science degree (A.A.S.) is awarded upon completion of a prescribed two-year program of study designed to prepare students to enter and compete in the job market. A.A.S. curricula are designed to enable the graduate to enter an occupation with marketable skills, an acceptable level of technical competency, and the ability to communicate effectively. The General Education Core and the total number of hours required for completing an A.A.S. degree vary depending upon the program of study.

Certificate Programs

FPC offers certificate programs designed to meet specific employment needs of the community. Students who enroll in certificate programs are generally interested in reentering the job market after an absence, changing careers, or upgrading job related skills in order to enhance employment specialization. Although certificates are normally one year in length, the specific number of credit hours varies by program area.

Program Advisory Committees

Advisory committees are used by the instructional divisions in each technical program area for program development, evaluation, long-range planning, development of employment opportunities for graduates, and other program issues. These committees provide an essential link between the education institution and the business community to ensure that graduates are adequately prepared for employment. Members of the advisory committees are selected from related industry, prospective employers, and other knowledgeable community representatives.

Marketable Skills Achievement Awards

Advisory committees are also valuable resources that assist the instructional divisions in each technical program area to determine which courses constitute a marketable basic-skill. The Marketable Skills Achievement Award provides an additional opportunity for students to enter

the workforce with the necessary basic skills in a specific area such as agriculture or welding. These awards range from nine (9) to fourteen (14) credit hours.

Additional Degrees

An additional associate degree may be conferred if all requirements for both degrees have been satisfactorily completed and at least 30 additional semester hours credit have been earned above the one requiring the most hours.

The Office of Educational Services is located in the Classroom Learning Complex (CLC).

Office #	EXT		
24C	X 732	Dr. Shannon Carroll	Vice President for Academic Affairs
22C	X 707	Michele Stevens	Director of Enrollment, CAMS Manager & VCT Coordinator
22	853	Elizabeth McCauley	Educational Services Office Assistant
24B	X 831	Jennifer Cobos	Director of Educational Services and Institutional Compliance
22B	X 729	Bryant Manning	Director of Preparatory Education & Assistant Professor of English
22A	X 777	Dr. Deborah Johnson	Director of Counseling, Testing & Career Services

Degrees and Certificates

[Core Curriculum](#)

[Associate in Arts](#)

[Associate in Science](#)

[Associate in Arts Teaching](#)

[Associate of Arts Music](#)

[Associate in Applied Science Degree and Certificates](#)

[Agriculture](#)

[Cosmetology](#)

[Industrial and Electrical](#)

[Licensed Vocational Nurse](#)

[Welding](#)

General Education Core Curriculum

42 Total Credit Hours

Component Area (*Core Curriculum Codes)	Required Credit Hours
<p>Communication (*10)</p> <p>ENGL 1301, SPCH 1311, SPCH 1318 <i>or</i> SPCH 1321</p> <p>Choose two (2) courses to fulfill the communication requirement; however, students must realize that ENGL 1301 is a pre-requisite to ENGL 1302, which is also required in the core. It is, therefore, in the best interest of students to choose ENGL 1301 and one speech class.</p>	6
<p>Mathematics (*20)</p> <p>MATH 1314, MATH 1316, MATH 1324, MATH 1325, MATH 1332, MATH 1342, MATH 1350, MATH 1351, MATH 2312, MATH 2313, MATH 2314, MATH 2315, MATH 2318, MATH 2320, MATH 2413, <i>or</i> MATH 2414</p> <p>Choose one (1) course for core requirements.</p>	3
<p>Life & Physical Sciences (*30)</p> <p>AGRI 1419, ANTH 2401, BIOL 1406, BIOL 1407, BIOL 1411, BIOL 1413, BIOL 2401, BIOL 2402, BIOL 2406, BIOL 2421, CHEM 1405, CHEM 1407, CHEM 1411, CHEM 1412, CHEM 2423, CHEM 2425, PHYS 1401, PHYS 1402, PHYS 1403, PHYS 1404, PHYS 1415, PHYS 1417, PHYS 2425, <i>or</i> PHYS 2426</p> <p>Choose two (2) courses from the list. The courses do not have to be in the same discipline; however, students should choose courses that best fit their intended majors. The distribution of credits for science will be two six (6) of the hours counting as a Natural Science requirement, and two (2) of the hours counting as a Component Area Option. Fulfillment of both component areas is required to complete the core curriculum.</p>	6
<p>Language, Philosophy & Culture (*40)</p> <p>ANTH 2346, ANTH 2351, ENGL 2321, ENGL 2326, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, <i>or</i> HIST 2311</p> <p>Choose one (1) course from the list. Students pursuing an Associate of Arts degree are required to have either an anthropology course and a literature course or two literature courses.</p>	3
<p>Creative Arts (*50)</p> <p>HUMA 1315, ARTS 1303, ARTS 1304, <i>or</i> MUSI 1306</p> <p>Choose one (1) course from the list.</p>	3
<p>American History (*60)</p> <p>HIST 1301 <i>and</i> HIST 1302</p> <p>Both courses are required for fulfillment of the core curriculum.</p>	6
<p>Government/Political Science (*70)</p> <p>GOVT 2305 <i>and</i> GOVT 2306</p> <p>Both courses are required for fulfillment of the core curriculum.</p>	6
<p>Social and Behavioral Sciences (*80)</p> <p>ECON 2301, ECON 2302, PSYC 2301, PSYC 2314, <i>or</i> SOCI 1301</p> <p>Choose one (1) course from the list.</p>	3
<p>Component Area Option (*90)</p> <p>PSYC 1100 <i>or</i> EDUC 1100 Students must take one (1) of these courses. (1)</p> <p>ENGL 1302 <i>or</i> ENGL 2311 Students must take one (1) of these courses. (3)</p> <p>*The remaining two (2) hours required to fulfill the component area option are derived from the additional two (2) hours taken under the Life & Physical Sciences component area. (2)</p>	6

[Back to Degrees and Certificates](#)

Associate in Arts General Degree

Component Area (*Core Curriculum Codes)	Required Credit Hours
Communication (*10)	6
<i>Must include:</i>	
ENGL 1301 Composition I and	(3)
SPCH 1311 Introduction to Speech Communication or	(3)
SPCH 1321 Business & Professional Communication	
Mathematics (*20)	3
<i>Any college-level mathematics course</i>	
Life & Physical Sciences (*30)	6
<i>Must be laboratory science courses**</i>	
Language, Philosophy, and Culture (*40)	3
<i>Choose one course from the list below:</i>	
ANTH 2346 General Anthropology	ENGL 2332 World Literature I
ANTH 2351 Cultural Anthropology	ENGL 2333 World Literature II
ENGL 2321 British Literature	ENGL 2342 Forms of Literature I
ENGL 2326 American Literature	ENGL 2343 Forms of Literature II
Creative Arts (*50)	3
<i>Choose one course from the list below:</i>	
HUMA 1315 Fine Arts Appreciation	ARTS 1304 Art History Survey II
ARTS 1303 Art History Survey I	MUSI 1306 Music Appreciation
American History (*60)	6
<i>Must include:</i>	
<i>(Legislatively mandated)</i>	
HIST 1301 United States History I and	(3)
HIST 1302 United States History II	(3)
Government/Political Science (*70)	6
<i>Must include:</i>	
<i>(Legislatively mandated)</i>	
GOVT 2305 Federal Government and	(3)
GOVT 2306 Texas Government	(3)
Social/Behavioral Science (*80)	3
<i>Choose one course from the list below:</i>	
ECON 2301 Principles of Macroeconomics	PSYC 2301 General Psychology
ECON 2302 Principles of Microeconomics	PSYC 2314 Lifespan Growth & Development
	SOCI 1301 Introduction to Sociology
Component Area Option (*90)	6
EDUC 1100 Learning Framework or PSYC 1100 Learning Framework	(1)
ENGL 1302 Composition II or ENGL 2311 Technical & Business Writing	(3)
<i>**the remaining two (2) hours are derived from the lab science courses above</i>	
	(2)
Additional Credit Hours for A.A. Degree	3
Any literature course (in addition to the literature course taken in the core requirements)	
Humanities Elective for A.A. Degree	
<i>Choose one course from the list below:</i>	
ENGL 1302 Composition II	HIST 2301 Texas History
ENGL 2307 Creative Writing I	HIST 2311 Western Civilization I
ENGL 2311 Technical & Business Writing	HIST 2312 Western Civilization II
ENGL 2342 Forms of Literature I	SPCH 1321 Business & Professional Communication
ENGL 2343 Forms of Literature II	
Approved Electives (Refer to the appropriate focus area for recommended electives.)	12
Degree Total Credit Hours:	60 Credit Hours

[Back to Degrees and Certificates](#)

Associate in Science General Degree

Component Area (*Core Curriculum Codes)	Required Credit Hours
Communication (*10)	6
<i>Must include:</i>	
ENGL 1301 Composition I and	(3)
SPCH 1311 Introduction to Speech Communication or	(3)
SPCH 1321 Business & Professional Communication	
Mathematics (*20)	3
<i>Any college-level mathematics course</i>	
Life & Physical Sciences (*30)	6
<i>Must be laboratory science courses**</i>	
Language, Philosophy, and Culture (*40)	3
<i>Choose one course from the list below:</i>	
ANTH 2346 General Anthropology	ENGL 2332 World Literature I
ANTH 2351 Cultural Anthropology	ENGL 2333 World Literature II
ENGL 2321 British Literature	ENGL 2342 Forms of Literature I
ENGL 2326 American Literature	ENGL 2343 Forms of Literature II
Creative Arts (*50)	3
<i>Choose one course from the list below:</i>	
HUMA 1315 Fine Arts Appreciation	ARTS 1304 Art History Survey II
ARTS 1303 Art History Survey I	MUSI 1306 Music Appreciation
American History (*60)	6
<i>Must include:</i>	
<i>(Legislatively mandated)</i>	
HIST 1301 United States History I and	(3)
HIST 1302 United States History II	(3)
Government/Political Science (*70)	6
<i>Must include:</i>	
<i>(Legislatively mandated)</i>	
GOVT 2305 Federal Government and	(3)
GOVT 2306 Texas Government	(3)
Social/Behavioral Science (*80)	3
<i>Choose one course from the list below:</i>	
ECON 2301 Principles of Macroeconomics	PSYC 2314 Lifespan Growth & Development
ECON 2302 Principles of Microeconomics	SOC1 1301 Introduction to Sociology
PSYC 2301 General Psychology	
Component Area Option (*90)	6
EDUC 1100 Learning Framework or PSYC 1100 Learning Framework	(1)
ENGL 1302 Composition II or ENGL 2311 Technical & Business Writing	(3)
**the remaining two (2) hours are derived from the lab science courses above	(2)
Additional Credit Hours for A.S. Degree - Choose one of the options below:	6
1. Students may take two (2) additional college-level mathematics courses; or	
2. Students may take one (1) additional college-level lab science course and one (1) additional college-level mathematics course; or	
3. Students may take two (2) additional college-level lab science courses; or	
4. Students may take one (1) additional college-level mathematics course and one (1) additional social science course from the courses listed below:	
<i>Social Science Elective</i>	
EDUC 1301 Introduction to Teaching Profession	PSYC 2314 Lifespan Growth & Development
GOVT 2304 Introduction to Political Science	PSYC 2319/SOCI 2326 Social Psychology
GOVT 2306 Texas Government	SOC1 1306 Social Problems
GOVT 2311 Mexican-American Politics	SOC1 2301 Marriage & the Family
Approved Electives (<i>Refer to the appropriate focus area for recommended electives.</i>)	12
Degree Total Credit Hours:	60 Credit Hours

[Back to Degrees and Certificates](#)

Associate of Arts in Teaching Degree

Leading to Initial Texas Teaching Certification in EC - 6

Component Area (*Core Curriculum Codes)	Required Credit Hours
Communication (*10) Must include:	6
ENGL 1301 Composition I and	(3)
SPCH 1311 Introduction to Speech Communication or	(3)
SPCH 1321 Business & Professional Communication	
Mathematics (*20) MATH 1314 College Algebra	3
Life & Physical Sciences (*30) Must be laboratory science courses**	6
Language, Philosophy, and Culture (*40) Choose one course from the list below:	3
ANTH 2346 General Anthropology	ENGL 2332 World Literature I
ANTH 2351 Cultural Anthropology	ENGL 2333 World Literature II
ENGL 2321 British Literature	ENGL 2342 Forms of Literature I
ENGL 2326 American Literature	ENGL 2343 Forms of Literature II
Creative Arts (*50) Choose one course from the list below:	3
HUMA 1315 Fine Arts Appreciation	ARTS 1304 Art History Survey II
ARTS 1303 Art History Survey I	MUSI 1306 Music Appreciation
American History (*60) Must include:	6
<i>(Legislatively mandated)</i>	
HIST 1301 United States History I and	(3)
HIST 1302 United States History II	(3)
Government/Political Science (*70) Must include:	6
<i>(Legislatively mandated)</i>	
GOVT 2305 Federal Government and	(3)
GOVT 2306 Texas Government	(3)
Social/Behavioral Science (*80) Choose one course from the list below:	3
ECON 2301 Principles of Macroeconomics	PSYC 2314 Lifespan Growth & Development
ECON 2302 Principles of Microeconomics	SOC1 1301 Introduction to Sociology
PSYC 2301 General Psychology	
Component Area Option (*90)	6
EDUC 1100 Learning Framework or PSYC 1100 Learning Framework	(1)
ENGL 1302 Composition II or ENGL 2311 Technical & Business Writing	(3)
***the remaining two (2) hours are derived from the lab science courses above	(2)
AAT Components	
Mathematics	6
MATH 1350 Advanced Mathematics I for Elementary Education Teachers or equivalent and	
MATH 1351 Advanced Mathematics II for Elementary Education Teachers or equivalent	
Science	
BIOL 1308 Integrated Science: Biology for Non-Science Majors I (recommended)	6
PHYS 1415 Physical Science I or PHYS 1417 Physical Science II (recommended)	
or two additional science courses beyond the core curriculum *please see advisor	
Field Experience Courses	6
EDUC 1301 Introduction to the Teaching Profession	
EDUC 2301 Introduction to Special Populations	
Degree Total Credit Hours:	60

[Back to Degrees and Certificates](#)

Associate of Arts in Teaching Degree

Leading to Initial Texas Teaching Certification in 4-8, EC-12 Special Education

Component Area (*Core Curriculum Codes)	Required Credit Hours
Communication (*10)	6
Must include:	
ENGL 1301 Composition I and	(3)
SPCH 1311 Introduction to Speech Communication or	(3)
SPCH 1321 Business & Professional Communication	
Mathematics (*20)	3
MATH 1314 College Algebra	
Life & Physical Sciences (*30)	6
Must be laboratory science courses**	
Language, Philosophy, and Culture (*40)	3
Choose one course from the list below:	
ANTH 2346 General Anthropology	ENGL 2332 World Literature I
ANTH 2351 Cultural Anthropology	ENGL 2333 World Literature II
ENGL 2321 British Literature	ENGL 2342 Forms of Literature I
ENGL 2326 American Literature	ENGL 2343 Forms of Literature II
Creative Arts (*50)	3
Choose one course from the list below:	
HUMA 1315 Fine Arts Appreciation	ARTS 1304 Art History Survey II
ARTS 1303 Art History Survey I	MUSI 1306 Music Appreciation
American History (*60)	6
Must include:	
<i>(Legislatively mandated)</i>	
HIST 1301 United States History I and	(3)
HIST 1302 United States History II	(3)
Government/Political Science (*70)	6
Must include:	
<i>(Legislatively mandated)</i>	
GOVT 2305 Federal Government and	(3)
GOVT 2306 Texas Government	(3)
Social/Behavioral Science (*80)	3
Choose one course from the list below:	
ECON 2301 Principles of Macroeconomics	PSYC 2314 Lifespan Growth & Development
ECON 2302 Principles of Microeconomics	SOCI 1301 Introduction to Sociology
PSYC 2301 General Psychology	
Component Area Option (*90)	6
EDUC 1100 Learning Framework or PSYC 1100 Learning Framework	(1)
ENGL 1302 Composition II or ENGL 2311 Technical & Business Writing	(3)
**the remaining two (2) hours are derived from the lab science courses above	(2)
AAT Components	
Mathematics	6
MATH 1350 Advanced Mathematics I for Elementary Education Teachers or equivalent and	
MATH 1351 Advanced Mathematics II for Elementary Education Teachers or equivalent	
Science	
BIOL 1308 Integrated Science: Biology for Non-Science Majors I (recommended)	6
PHYS 1415 Physical Science I or PHYS 1417 Physical Science II (recommended)	
or two additional science courses beyond the core curriculum *please see advisor	
Field Experience Courses	6
EDUC 1301 Introduction to the Teaching Profession	
EDUC 2301 Introduction to Special Populations	
Content Area Teaching Fields/Academic Disciplines	
Degree Total Credit Hours:	60

[Back to Degrees and Certificates](#)

Associate of Arts in Teaching Degree

Leading to Initial Texas Teaching Certification
in 7-12, EC-12 Other Than Special Education

Component Area (*Core Curriculum Codes)	Required Credit Hours
Communication (*10) Must include:	6
ENGL 1301 Composition I and	(3)
SPCH 1311 Introduction to Speech Communication or	(3)
SPCH 1321 Business & Professional Communication	
Mathematics (*20) Any college-level mathematics course	3
Life & Physical Sciences (*30) Must be laboratory science courses**	6
Language, Philosophy, and Culture (*40) Choose one course from the list below:	3
ANTH 2346 General Anthropology	ENGL 2332 World Literature I
ANTH 2351 Cultural Anthropology	ENGL 2333 World Literature II
ENGL 2321 British Literature	ENGL 2342 Forms of Literature I
ENGL 2326 American Literature	ENGL 2343 Forms of Literature II
Creative Arts (*50) Choose one course from the list below:	3
HUMA 1315 Fine Arts Appreciation	ARTS 1304 Art History Survey II
ARTS 1303 Art History Survey I	MUSI 1306 Music Appreciation
American History (*60) Must include:	6
<i>(Legislatively mandated)</i>	
HIST 1301 United States History I and	(3)
HIST 1302 United States History II	(3)
Government/Political Science (*70) Must include:	6
<i>(Legislatively mandated)</i>	
GOVT 2305 Federal Government and	(3)
GOVT 2306 Texas Government	(3)
Social/Behavioral Science (*80) Choose one course from the list below:	3
ECON 2301 Principles of Macroeconomics	PSYC 2314 Lifespan Growth & Development
ECON 2302 Principles of Microeconomics	SOC1 1301 Introduction to Sociology
PSYC 2301 General Psychology	
Component Area Option (*90)	6
EDUC 1100 Learning Framework or PSYC 1100 Learning Framework	(1)
ENGL 1302 Composition II or ENGL 2311 Technical & Business Writing	(3)
AAT Components	(2)
<i>Field Experience Courses</i>	
EDUC 1301 Introduction to the Teaching Profession	18
EDUC 2301 Introduction to Special Populations	
Content Area Teaching Fields/Academic Disciplines	
Degree Total Credit Hours:	60

[Back to Degrees and Certificates](#)

Associate of Arts - in Music Field of Study Curriculum

Component Area (*Core Curriculum Codes)	Required Credit Hours
Communication (*10) Must include:	6
ENGL 1301 Composition I and	(3)
SPCH 1311 Introduction to Speech Communication or	(3)
SPCH 1321 Business & Professional Communication	
Mathematics (*20) MATH 1314 College Algebra	3
Life & Physical Sciences (*30) Must be laboratory science courses**	6
Language, Philosophy, and Culture (*40) Choose one course from the list below:	3
ANTH 2346 General Anthropology	ENGL 2332 World Literature I
ANTH 2351 Cultural Anthropology	ENGL 2333 World Literature II
ENGL 2321 British Literature	ENGL 2342 Forms of Literature I
ENGL 2326 American Literature	ENGL 2343 Forms of Literature II
Creative Arts (*50) Choose one course from the list below:	3
HUMA 1315 Fine Arts Appreciation	ARTS 1304 Art History Survey II
ARTS 1303 Art History Survey I	MUSI 1306 Music Appreciation
American History (*60) Must include:	6
<i>(Legislatively mandated)</i>	
HIST 1301 United States History I and	(3)
HIST 1302 United States History II	(3)
Government/Political Science (*70) Must include:	6
<i>(Legislatively mandated)</i>	
GOVT 2305 Federal Government and	(3)
GOVT 2306 Texas Government	(3)
Social/Behavioral Science (*80) Choose one course from the list below:	3
ECON 2301 Principles of Macroeconomics	PSYC 2314 Lifespan Growth & Development
ECON 2302 Principles of Microeconomics	SOCI 1301 Introduction to Sociology
PSYC 2301 General Psychology	
Component Area Option (*90)	6
EDUC 1100 Learning Framework or PSYC 1100 Learning Framework	(1) (3)
ENGL 1302 Composition II or ENGL 2311 Technical & Business Writing	(2)
Music Field of Study Curriculum (FOSC)	
<i>Music Theory:</i>	(3)
MUSI 1311 Music Theory I	MUSI 2311 Music Theory III
MUSI 1312 Music Theory II	MUSI 2312 Music Theory IV
<i>Sight Singing & Ear Training:</i>	
MUSI 1116 Sight Singing & Ear Training I	MUSI 2116 Sight Singing & Ear Training III
MUSI 1116 Sight Singing & Ear Training II	MUSI 2117 Sight Singing & Ear Training IV
<i>Applied:</i> Choose either Option A or Option B for both Primary Applied and Secondary Applied	(8)
Option A – Piano MUAP 1XXX and/or MUAP 2XXX	
Option B Choose from one of the following fields: Voice, Brass, Organ, Strings, Woodwind or Percussion MUAP 1XXX and/or MUAP 2XXX	
<i>Ensembles: Community Choir and/or Instrumental Ensemble</i>	
MUEN 1131 Instrumental Ensemble	MUEN 1151 Community Choir
MUEN 1132 Instrumental Ensemble	MUEN 1152 Community Choir
MUEN 2131 Instrumental Ensemble	MUEN 2151 Community Choir
MUEN 2132 Instrumental Ensemble	MUEN 2152 Community Choir

Associate in Applied Science Degree Farm & Ranch Management

I.	General Education Core	19 credit hours
	• ENGL 1301 Composition I	3
	• CHEM 1411 General Chemistry OR	
	• BIOL 1406 General Biology	4
	• SPCH 1311 Intro. to Speech Communication or	
	• SPCH 1321 Business & Professional Communication	3
	• MATH 1314 College Algebra	3
	• <i>select one course from options below:</i>	3
	▪ HUMA1315 Fine Arts Appreciation or	
	▪ ANTH 2351 Cultural Anthropology	
	• <i>select one course from options below:</i>	3
	▪ GOVT 2305 Federal Government or	
	▪ GOVT 2306 Texas Government	
II.	Required Agriculture Core Courses	15 credit hours
	• AGRI 1131 The Agricultural Industry	1
	• AGRI 1329 Principles of Food Science	3
	• AGRI 1407 Agronomy	4
	• AGRI 1419 Introductory Animal Science	4
	• AGRI 2317 Introduction to Agricultural Economics	3
III.	Required Agriculture Courses	19 credit hours
	• AGRI 1325 Marketing of Agricultural Products	3
	• AGCR 1407 Range Management	4
	• AGAH 2313 Principles of Feeds & Feeding	3
	• AGRI 2321 Livestock Evaluation I	3
	• AGRI 2330 Wildlife Conservation & Management	3
	• AGMG 2388 Agribusiness Operations Internship	3
IV.	Electives-choose a minimum of 7 hours	7 credit hours
	• WLDG 1204 Fundm. of Oxy-Fuel Welding and Cutting	2
	• WLDG 1202 Fundm. of Gas Metal Arc (GMAW) Welding	2
	• WLDG 1428 Intro. to Shielded Metal Arc Welding (SMAW)	4
	• AGMG 2301 Livestock Business Management	3
	• BUSI 1301 Business Principles	3
	• BCIS 1405 Business Computer Applications	4
	• ACCT 2301 Principles of Accounting I-Financial	3
	Total:	60 credit hours

Exit Level Certificate of Completion Farm & Ranch Management

I. Required Agriculture Core Courses	15 credit hours
• AGRI 1131 The Agricultural Industry	1
• AGRI 1329 Principles of Food Science	3
• AGRI 1407 Agronomy	4
• AGRI 1419 Introductory Animal Science	4
• AGRI 2317 Introduction to Agricultural Economics	3
II. Select a minimum of 12 hours from the following:	12 credit hours
• AGRI 1325 Marketing of Agricultural Products	3
• AGCR 1407 Range Management	4
• AGAH 2313 Principles of Feeds & Feeding	3
• AGMG 2301 Livestock Business Management	3
• AGRI 2321 Livestock Evaluation I	3
• AGRI 2330 Wildlife Conservation & Management	3
• AGRI 2403 Agricultural Construction	4
III. Required Internship	3 credit hours
• AGMG 2388 Agribusiness Operations Internship	3
Total:	30-32 credit hours

Marketable Skills Achievement Award In Farm & Ranch Management

Required Agriculture Core Courses	12 credit hours
• AGRI 1131 The Agricultural Industry	1
• AGRI 1407 Agronomy	4
• AGRI 1419 Introductory Animal Science	4
• AGRI 2317 Introduction to Agricultural Economics	3
Total:	12 credit hours

[Back to Degrees and Certificates](#)

Certificate of Completion Cosmetology

Required Courses	42 credit hours
Fall Semester	
• CSME 1443 Manicuring & Related Theory (CSME)	4
• CSME 1310 Introduction to Haircutting & Related Theory	3
• CSME 1447 Principles of Skin Care/Facials & Related Theory	4
• CSME 1505 Fundamentals of Cosmetology	5
Spring Semester	
• CSME 1553 Chemical Reformation & Related Theory	5
• CSME 2310 Intermediate Haircutting & Related Theory	3
• CSME 2337 Advanced Cosmetology Techniques	3
• CSME 2501 Principles of Hair Coloring & Related Theory	5
Summer Semester	
• CSME 2539 Advanced Hair Design	5
• CSME 2541 Preparation for Texas Cosmetology Examination	5

Certificate of Completion Nail Technology

Required Courses	19 credit hours
• CSME 1330 Orientation to Nail Technology	3
• CSME 1431 Principles of Nail Technology I	4
• CSME 1441 Principles of Nail Technology II	4
• CSME 1443 Manicuring & Related Theory (Nails)	4
• CSME 2430 Nail Enhancement	4

Certificate of Completion Cosmetology Instructor

Required Courses	20 credit hours
• CSME 1434 Cosmetology Instructor I	4
• CSME 1435 Orientation to the Instruction of Cosmetology	4
• CSME 2414 Cosmetology Instructor II	4
• CSME 2415 Cosmetology Instructor III	4
• CSME 2445 Instructional & Theory Clinical Operation	4

[Back to Degrees and Certificates](#)

Associate in Applied Science

Instrumentation & Electrical Technology (I&E)

I.	General Education Core	15 credit hours
	• MATH Elective (college-level math)	3
	• ENGL 1301 Composition I	3
	• HUMA1315 Fine Arts Appreciation	3
	• SPCH Elective (college-level speech)	3
	• Social/Behavioral Science Elective (college-level)	3
II.	Technical Core Courses	23 credit hours
	• CETT 1409 DC-AC Circuits	4
	• CETT 1325 Digital Fundamentals	3
	• INTC 1350 Digital Measurements & Controls	3
	• INTC 1355 Unit Operations	3
	• INTC 2336 Distributed Control & Programmable Logic	3
	• INTC 2339 Instrument & Control Review (Capstone)	3
	• INTC 2388 Internship Instrumentation Technology <i>or</i>	
	• INTC 1391 Special Topics in Instrumentation Technology	3
III.	Required Instrumentation Technology Courses	12 credit hours
	• INTC 1305 Introduction to Instrumentation	3
	• INTC 1348 Analytical Instrumentation	3
	• INTC 1356 Instrumentation Calibration	3
	• INTC 1358 Flow & Measurement Calibration	3
IV.	Required Electrical Technology Courses	12 credit hours
	• ELPT 1331 Survey of the National Electrical Code	3
	• ELPT 1341 Motor Control	3
	• ELPT 2339 Electrical Power Distribution	3
	• ELPT 2347 Electrical Testing & Maintenance	3
	Total:	60 credit hours

Certificate of Completion — Instrumentation Technology

I. Technical Core Courses	23 credit hours
• CETT 1409 DC-AC Circuits	4
• CETT 1425 Digital Fundamentals	4
• INTC 1350 Digital Measurements & Controls	3
• INTC 1355 Unit Operations	3
• INTC 2336 Distributed Control & Programmable Logic	3
• INTC 2339 Instrument & Control Review (Capstone)	3
• INTC 2388 Internship Instrumentation Technology <i>or</i>	
• INTC 1391 Special Topics in Instrumentation Technology	3
II. Required Instrumentation Technology Courses	12 credit hours
• INTC 1305 Introduction to Instrumentation	3
• INTC 1348 Analytical Instrumentation	3
• INTC 1356 Instrumentation Calibration	3
• INTC 1358 Flow & Measurement Calibration	3
Total:	35 credit hours

Certificate of Completion — Electrical Technology

I. Technical Core Courses	23 credit hours
• CETT 1409 DC-AC Circuits	4
• CETT 1425 Digital Fundamentals	4
• INTC 1350 Digital Measurements & Controls	3
• INTC 1355 Unit Operations	3
• INTC 2336 Distributed Control & Programmable Logic	3
• INTC 2339 Instrument & Control Review (Capstone)	3
• INTC 2388 Internship Instrumentation Technology <i>or</i>	
• INTC 1391 Special Topics in Instrumentation Technology	3
II. Required Electrical Technology Courses	12 credit hours
• ELPT 1331 Survey of the National Electrical Code	3
• ELPT 1341 Motor Control	3
• ELPT 2339 Electrical Power Distribution	3
• ELPT 2347 Electrical Testing & Maintenance	3
Total:	35 credit hours

Certificate of Completion — Pump & Engine Technology (P&E)

• CBFM 2317 Mechanical Maintenance	3
• ENER 1330 Basic Mechanical Skills for Energy	3
• HEMR 1304 Natural Gas Compression	3
• IEIR 1343 Industrial Equipment Maintenance	3
• CETT 1409 DC-AC Circuits	4
• INTC 1305 Introduction to Instrumentation	3
• ELPT 1341 Motor Control	3

- INMT 2303 Pumps, Compressors & Mechanical Drives 3
- INTC 1355 Unit Operations (Capstone) 3
- INTC 2388 Internship-Instrumentation Technology *or*
- INTC 1391 Special Topics in Instrumentation Technology 3

Total: 31 credit hours

Certificate of Completion — Process Technology

- INTC 1305 Introduction to Instrumentation 3
- PTAC 1302 Introduction to Process Technology 3
- PTAC 1308 Safety, Health & Environment I 3
- INTC 1355 Unit Operations 3
- CBFM 2317 Mechanical Maintenance 3
- INMT 2303 Pumps, Compressors & Mechanical Drives 3
- INTC 2336 Distributed Control and Programmable Logic 3
- PTAC 2420 Process Technology II - Systems 4
- PTAC 2388 Internship-Process Technology *or*
- CTEC 1391 Special Topics in Chemical Technology 3
- PTAC 2438 Process Technology III – Operations 4

Total: 32 credit hours

Marketable Skills Achievement Award - In Basic Electronics

- CETT 1303 DC Circuits 3
- CETT 1305 AC Circuits 3
- CETT 1425 Digital Fundamentals 4
- INTC 2336 Distributed Control & Programmable Logic 3

[Back to Degrees and Certificates](#)

Certificate of Completion

Licensed Vocational Nurse

Satisfactory completion of the curriculum below makes the graduate eligible to apply for licensure as a Licensed Vocational Nurse.

SUMMER	14 credit hours
• PSYC 2301 General Psychology	3
• BIOL 2401 Anatomy & Physiology I	4
• BIOL 1322 Nutrition & Diet Therapy I	3
• BIOL 2402 Anatomy & Physiology II	4
FALL	20 credit hours
• VNSG 1402 Applied Nursing Skills I	4
• VNSG 1230 Maternal-Neonatal Nursing	2
• VNSG 1226 Gerontology	2
• VNSG 1227 Essentials of Medication Administration	2
• VNSG 1231 Pharmacology	2
• VNSG 1360 Clinical-Practical Nurse Introductory	3
• VNSG 1236 Mental Health	2
• HITT 1305 Medical Terminology I	3
SPRING	14 credit hours
• VNSG 1234 Pediatrics	2
• VNSG 1329 Medical-Surgical I	3
• VNSG 1332 Medical-Surgical II	3
• VNSG 2360 Clinical-Practical Nurse Intermediate	3
• VNSG 2363 Clinical-Practical Nurse Advanced	3
Total:	48 credit hours

[Back to Degrees and Certificates](#)

Certificate of Completion Welding Technology

I.	Required Courses	23 credit hours
	• WLDG 1317 Introduction to Layout Fabrication	3
	• WLDG 1204 Fundamentals of Oxy-Fuel Welding and Cutting	2
	• DFTG 1325 Blueprint Reading and Sketching	3
	• WLDG 1337 Introduction to Welding Metallurgy	3
	• WLDG 1428 Intro. to Shielded Metal Arc Welding (SMAW)	4
	• WLDG 1457 Intermediate Shielded Metal Arc Welding (SMAW)	4
	• WLDG 2488 Internship – Welder/Welding Technologist*	4

*Capstone course

II.	Selected Areas of Specialization	12-15 credit hours
------------	---	---------------------------

-General Welding Specialist

	• WLDG 1202 Intro. to Gas Metal Arc Welding(GMAW)	2
	• WLDG 1206 Fundm. of Gas Tungsten Arc Welding(GTAW)	2
	• WLDG 1435 Introduction to Pipe Welding	4
	• WLDG 2443 Advanced Shielded Metal Arc Welding (SMAW)	4

-Pipe Welding Specialist

	• WLDG 1435 Introduction to Pipe Welding	4
	• WLDG 2506 Intermediate Pipe Welding	5
	• WLDG 2453 Advanced Pipe Welding	4
	• WLDG 1206 Fundm. of Gas Tungsten Arc Welding (GTAW)	2

Total: **35-38 credit hours**

Additional Welding Classes Offered:

	• WLDG 1391 Special Topics	3
	• WLDG 1305 Art Metals	3
	• WLDG 2451 Advanced Gas Tungsten Arc Welding (GTAW)	4
	• WLDG 2439 Advanced Oxy-Fuel Welding & Cutting	4
	• WLDG 2447 Advanced Gas Metal Arc Welding (GMAW)	4
	• WLDG 2452 Advanced Flux Cored Arc Welding	4
	• PFPB 1443 Pipefitting Fabrication & Blueprint Reading	4
	• PFPB 2408 Pipe Standards & Materials	4
	• PFPB 2432 Adv. Pipefitting Standards, Specifications & Installation	4
	• PFPB 2443 Advanced Pipe Practices	4
	• PFPB 2449 Field Measuring, Sketching & Layout	4

Pipe Fitting Specialist - Certificate of Completion

I. Required Courses	24 credit hours
• WLDG 1428 Introduction to Shielded Mtl Arc Welding (SMAW)	4
• PFPB 1443 Pipefitting Fabrication & Blueprint Reading	4
• PFPB 2408 Pipe Standards & Materials	4
• PFPB 2432 Adv. Pipefitting Standards, Specs. & Installation	4
• PFPB 2443 Advanced Pipe Practices	4
• PFPB 2449 Field Measuring, Sketching & Layout	4
Total:	24 credit hours

Marketable Skills Achievement Award in Basic Welding

I. Required Courses	12 credit hours
• WLDG 1204 Fundamentals of Oxy-Fuel Welding and Cutting	2
• WLDG 1317 Intro. to Layout Fabrication	3
• DFTG 1325 Blueprint Reading and Sketching	3
• WLDG 1428 Intro. to Shielded Metal Arc Welding (SMAW)	4
II. Area of Specialization	2 credit hours
<i>Select one course from options below:</i>	
• WLDG 1202 Introduction to Gas Metal Arc (GMAW) Welding	2
• WLDG 1206 Fundamentals of Gas Tungsten Arc (GTAW) Welding	2
Total:	14 credit hours

[Back to Degrees and Certificates](#)