ENGL 1301 Composition and Rhetoric
3 Hours (3-0)
Basic mechanical skills using hand and power tools in an industrial environment. Topics include tool use and maintenance, lubrication, measuring, threads and fasteners, bench work, basic mechanical drawings, and basic shop calculations (English and metric). Also addresses rigging procedures to include chain falls, jacks, cable, fulcrum, port-a-power, and come-alongs. Students will use basic hand, hand power, and stationary power tools; select appropriate Bill of Materials (BOM); interpret basic mechanical drawings and perform associated calculations; apply measuring tools; perform bench work including part layout, drilling, reaming, tapping, press fitting, location of hole centers; perform preventative maintenance on tools; describe basic lubrication practices; demonstrate basic rigging procedures; and employ good housekeeping, environmental awareness, safety procedures, sensory skills, and preventative maintenance.

ENGL 0171 Intermediate Writing II
1 Hour (0-1)
Required for student taking ENGL 1301 under the “C” or better option. Student must make a “C” in this course and a “C” in ENGL 1301 to fulfill college writing readiness requirement.

ENGL 0270 Intermediate Writing I
2 Hours (0-2)
A writing-intensive lab course designed to prepare the student for college writing readiness. Prerequisite: ENGL 0371/0371.

ENGL 0370 Developmental Writing I
3 Hours (3-1)
A course designed to assist students to become more proficient in grammar, mechanics, expository writing, vocabulary, and critical reading. Students are required to work on writing, vocabulary, grammar, and punctuation in writing lab.

ENGL 0371 Developmental Writing II
3 Hours (3-1)
A course designed to assist students to become more proficient in grammar, mechanics, expository writing, vocabulary, and critical reading. Students are required to work on writing, vocabulary, grammar, and punctuation in writing lab.

ENGL 1301 Composition and Rhetoric
3 Hours (3-0)
A course designed to help students develop reading and writing skills by studying diction, syntax, paragraph development, grammar, vocabulary and essay organization and by writing expository paragraphs and essays. Course assignments will include a minimum of 6000 words of writing. Prerequisite: 220+ THEA Writing and 230 THEA Reading or 70/6 Compass Writing and 81 Compass Reading or successful completion of developmental education sequence. Co-requisite: ENGL 0181, when taken as culmination of developmental education sequence.

ENGL 1302 Composition and Literature
3 Hours (3-0)
A course designed to enable students to further their composition skills by writing multi-paragraph essays, including a research paper; to write logically; and to read, research, analyze, and discuss the literary genres of poetry, short fiction, and drama. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1301.

ENGL 2307 Creative Writing
3 Hours (3-0)
A course designed to enable students to investigate and discuss the creative process, to study and practice techniques of creative writing; and to read, analyze, discuss, and write two or more of the following: narrative essays, poems, short stories, and researched reviews/abstracts. Course assignments will include a minimum of 6000 words of writing. Credit will be given only once for ENGL 2307.

ENGL 2308 Advanced Studies in Creative Writing
3 Hours (3-0)
An advanced course designed to enable students to investigate and discuss the creative Process; to study and practice techniques of creative writing; and to read, analyze, discuss, and write one or more of the following: narrative essays, poems, short stories, and plays. Credit will be given only once for ENGL 2308. Prerequisite: ENGL 1301.

ENGL 2311 Technical Writing
3 Hours (3-0)
A course designed to enable students to organize and prepare basic technical materials in the following areas: abstracts; proposals, technical descriptions, instructional processes, informational processes, technical definitions, progress reports; formal technical reports, graphics, and business correspondence. Course is designed also to enable students to analyze audience and present oral reports. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1301.

ENGL 2314 Technical & Business Writing I
3 Hours (3-0)
First semester of a study designed to enable students to organize and prepare materials for college-level scientific, technical, or business writing. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1301.

ENGL 2315 Technical & Business Writing II
3 Hours (3-0)
Second semester of a study designed to enable students to organize and prepare materials for college-level scientific, technical, or business writing. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 2314.

ENGL 2321 Masterworks of British Literature
3 Hours (3-0)
The study of longer significant works of British literature, including study of movements, schools, or periods. Prerequisite: ENGL 1302. Course assignments will include a minimum of 6000 words of writing.

ENGL 2322 British Literature Anglo-Saxon Period through Neo-Classical
3 Hours (3-0)
A course designed to enable students to develop a historical perspective on the development of ideas and literary techniques by studying major authors, works, and trends in English literature from the Anglo-Saxon Period through the Neo-classical Age. Students will develop their critical thinking, research, and writing skills. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits (Contact Hours)</th>
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</thead>
<tbody>
<tr>
<td>GERM 1412</td>
<td>Elementary German II</td>
<td>4 Hours (3-4)</td>
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<tr>
<td>GERM 2311</td>
<td>Intermediate German I</td>
<td>3 Hours (3-2)</td>
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<tr>
<td>GOVT 2301</td>
<td>Federal and State Government I</td>
<td>3 Hours (3-0)</td>
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<tr>
<td>GERM 2312</td>
<td>Intermediate German II</td>
<td>3 Hours (3-2)</td>
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<tr>
<td>GOVT 2302</td>
<td>Federal and State Government II</td>
<td>3 Hours (3-0)</td>
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<tr>
<td>GOVT 2311</td>
<td>Mexican-American Politics</td>
<td>3 Hours (3-0)</td>
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<tr>
<td>GOVT 2389</td>
<td>Government Internship</td>
<td>3 Hours (3-4)</td>
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<tr>
<td>GRPH 1359</td>
<td>Object Oriented Computer Graphics</td>
<td>3 Hours (2-4)</td>
</tr>
<tr>
<td>HART 1380</td>
<td>Cooperative Education</td>
<td>3 Hours (1-0-20)</td>
</tr>
<tr>
<td>HART 1391</td>
<td>Special Topics in Heating, Air Conditioning, and Refrigeration</td>
<td>3 Hours (2-2)</td>
</tr>
<tr>
<td>HART 1401</td>
<td>Basic Electricity for HVAC</td>
<td>4 Hours (3-3)</td>
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<tr>
<td>HART 1407</td>
<td>Refrigeration Principles</td>
<td>4 Hours (3-3)</td>
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<tr>
<td>HART 1411</td>
<td>Residential Air Conditioning</td>
<td>4 Hours (3-3)</td>
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<tr>
<td>HART 1441</td>
<td>Residential Air Conditioning</td>
<td>4 Hours (3-3)</td>
</tr>
<tr>
<td>HART 1445</td>
<td>Gas and Electric Heating</td>
<td>4 Hours (3-3)</td>
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</tbody>
</table>
MATH 0372 Intermediate Algebra
3 Hours (3-0)
This course is intermediate in difficulty between the introductory and college algebra courses and is designed to bridge the gap between the courses. This course will enable students to become proficient in factoring, solving quadratic equations and systems of equations, working with conic sections, and functions. Co-requisite: MATH 0170. Prerequisite: Requires a “C” or greater in MATH 0371 and a “P” in MATH 0170 or “P” in MATH 0174-0176 (FLEX Introductory Algebra sequence) or a satisfactory score on an algebra placement test or 230 on THEA. Course fee.

MATH 1314 College Algebra
3 Hours (3-0)
This course is designed to enable students to become proficient in the following algebraic topics: polynomials, rational expressions, exponents, radicals, linear equations and inequalities, quadratic equations, exponential and logarithmic equations, applications systems of equations, and binomial expansion. Prerequisite: Requires a “C” or greater in MATH 0392 and a “P” in MATH 0170 or a “P” in MATH 0177-0179 or a satisfactory score on an algebra placement test or 270 on THEA. Course fee.

MATH 1316 Trigonometry
3 Hours (3-0)
This course is designed to enable students to become proficient in trigonometric and inverse trigonometric functions, the solution of triangles, identities, trigonometric equations, applications complex numbers, and logarithms. Prerequisite: Requires a “C” or greater in MATH 1314 or a satisfactory score on an algebra placement test. Course fee.

MATH 1324 Mathematics for Business & Social Sciences I
3 Hours (3-0)
This course is designed to enable students to solve elementary business problems involving the following topics: sets, linear relations and functions, elementary matrix theory, systems of linear equations and inequalities, linear programming by the simplex method, simple and compound interest, annuities, amortization, and bonds. Requires a “B” or greater in MATH 0391 and a “P” in MATH 0190 or a satisfactory score on an algebra placement test. Course fee.

MATH 1325 Mathematics for Business & Social Sciences II
3 Hours (3-0)
This course is designed to enable students to learn quantitative methods for analyzing business problems. The topics to be studied are: Limits and continuity, derivatives, graphing and optimization, exponential and logarithmic functions, antiderivatives, integration, applications to management, economics, and business. Prerequisite: Requires a “C” or greater in MATH 1324. Course fee.

MATH 1342 Statistics
3 Hours (3-0)
This course is designed to enable students to learn the introductory techniques of collection, presentation, analysis, and interpretation of data. Correlation methods, analysis of variance, dispersion, sampling, quality control, reliability, mathematical models, and regression analysis are also studied. Students will become proficient in use of computer technology such as Excel. Prerequisite: Requires a “B” or greater in MATH 0391 and a “P” in MATH 0190 or a higher level math course or a satisfactory score on an Algebra placement test. Course fee.

MATH 1350 Fundamentals of Mathematics I
3 Hours (3-0)
Concepts of sets, functions, numeration systems, number theory, and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4-8) teacher certification. Prerequisite: Requires a “C” or greater in MATH 1314 or equivalent. Course fee.

MATH 1351 Fundamentals of Mathematics II
3 Hours (3-0)
Concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4-8) teacher certification. Prerequisite: Requires a “C” or greater in MATH 1350, or “C” or greater in MATH 1314 or equivalent. Course fee.

MATH 1414 College Algebra
4 Hours (4-0)
This course is designed to enable students to become proficient in the following algebraic topics: polynomials, rational expressions, exponents, radicals, linear equations and inequalities, quadratic equations, exponential and logarithmic equations, systems of equations, and binomial expansion. Prerequisite: Requires a “C” or greater in MATH 0391 and a “P” in MATH 0190 or a “P” in MATH 0196-0199 or a satisfactory score on an algebra placement test or 270 on THEA. This course is designed for students needing more time to successfully complete College Algebra. Course fee.

MATH 2412 Pre-Calculus
4 Hours (4-0)
This course is designed to enable students to become proficient in applications of algebra and trigonometry to the study of elementary functions and their graphs including polynomial, rational, exponential, logarithmic, and trigonometric functions. Some topics from analytical geometry are discussed. Prerequisite: Requires a “C” or greater in MATH 1314 or a satisfactory score on Trigonometry placement test. Course fee.

MATH 2413 Calculus I
4 Hours (4-0)
This course is designed to enable students to become proficient in introductory analytic geometry, the theory of limits, differential calculus of algebraic and trigonometric functions, applications of differentiation, antiderivatives, and the definite integral. Prerequisite: Requires a “C” or greater in MATH 1316 or a “C” or better in MATH 2412 or a satisfactory score on a precalculus placement test. Course fee.

MATH 2414 Calculus II
4 Hours (4-0)
This course is designed to enable students to become proficient in the differentiation and integration of transcendental functions, techniques of integration, and applications of the definite integral, indeterminate forms, and improper integrals. Prerequisite: Requires a “C” or greater in MATH 2413. Course fee.

MATH 2415 Calculus III
4 Hours (4-0)
This course will enable students to become proficient in indeterminate forms, improper integrals, sequences, series, vectors, and the differential and integral calculus of functions of several variables. Prerequisite: Requires a “C” or greater in MATH 2414. Course fee.
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<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>MUSI 1301</td>
<td>Fundamentals of Music</td>
<td>3 (3-0)</td>
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<tr>
<td>MUSI 1304</td>
<td>Public School Music Methods and Materials</td>
<td>3 (3-0)</td>
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<tr>
<td>MUSI 1306</td>
<td>Music Appreciation</td>
<td>3 (3-0)</td>
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<tr>
<td>MUSI 1308</td>
<td>Survey of Music Literature</td>
<td>3 (3-0)</td>
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<tr>
<td>MUSI 1309</td>
<td>Survey of Music Literature II</td>
<td>3 (3-0)</td>
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<tr>
<td>MUSI 1310</td>
<td>American Music: History of Country Music</td>
<td>3 (3-0)</td>
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<tr>
<td>MUSI 1311</td>
<td>American Music: Jazz</td>
<td>3 (3-0)</td>
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<tr>
<td>MUSI 1312</td>
<td>American Music: Rock 'n' Roll Music</td>
<td>3 (3-0)</td>
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<tr>
<td>PHIL 1301</td>
<td>Introduction to Philosophy</td>
<td>3 (3-0)</td>
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<tr>
<td>OSHT 1301</td>
<td>Introduction to Safety and Health Technology</td>
<td>3 (3-0)</td>
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<tr>
<td>OSHT 1320</td>
<td>Energy Industrial Safety</td>
<td>3 (3-0)</td>
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</table>

**MUSI 1301 Fundamentals of Music**
3 Hours (3-0)
A preparatory course for music majors, not applicable toward the music degree. MUSI 1301 examines the fundamentals of rhythm, melody, harmony, ear-training, sight singing, and keyboard.

**MUSI 1304 Public School Music Methods and Materials**
3 Hours (3-0)
A course which examines techniques and materials for music instruction in kindergarten and grades one through six. Participation includes experience in part singing, playing, listening, voice testing, rhythmic, and creative activities.

**MUSI 1306 Music Appreciation**
3 Hours (3-0)
A course designed to provide an overview of music from antiquity to the present. Course is designed to enable students to investigate music in the context of social and cultural history.

**MUSI 1308 Survey of Music Literature**
3 Hours (3-0)
A course designed to enable student to examine music critically, including its development and its function in culture from antiquity to 1750. Course utilizes primary sources and listening selections.

**MUSI 1309 Survey of Music Literature II**
3 Hours (3-0)
A course designed to enable student to examine music critically, including its development and its function in culture from 1750 to present. Course utilizes primary sources and listening selections.

**MUSI 1310 American Music: History of Country Music**
3 Hours (3-0)
A course designed to enable student to trace the development of country music and its function in American culture from Appalachia in the 1920s to present. Credit will be given only once for MUSI 1310.

**MUSI 1310 American Music: Jazz**
3 Hours (3-0)
A course designed to enable student to examine genesis and history of Jazz in America and to probe its influence on American music, culture, and society. Credit will be given only once for MUSI 1310.

**MUSI 1310 American Music: Rock 'n' Roll Music**
3 Hours (3-0)
A course designed to enable student to examine the effect of historical events on American popular music culture. Course includes listening and reporting on music in context of recent American History. Credit will be given only once for MUSI 1310.

**PHIL 1301 Introduction to Philosophy**
3 Hours (3-0)
“Introduction to Philosophy” samples the writings of thinkers who over the past 2500 years have challenged the human intellect with questions about the meaning of existence, the nature of reality, and the validity of knowledge. The course encourages students to re-examine and clarify their own beliefs and values.

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**MUEN 1147, 1148, 2147, 2148 Men’s Choir I, II, III, IV**
1 Hour (0-5)

**MUEN 1151, 1152, 2151, 2152 Jazz Singers I, II, III, IV**
1 Hour (0-4)

**MUEN 1159, 2159 Musical Theatre I, II**
1 Hour (1-2)
Study and performance of works from the musical theatre repertoire.

**MUEN 1162, 1165 Diction I, II**
1 Hour (1-1)

**MUEN 1163, 1164 Jazz Improvisation I, II**
1 Hour (0-3)

**MUEN 1181, 1182, 2181, 2182 Class Piano I, II, III, IV**
1 Hour (2-1)
Beginning piano. A series of introductory courses designed for students with little or no previous piano playing experience. Topics explored include physical technique, practice methods, repertoire, style and interpretation, comfort in performance settings, improvisation, and appropriate concepts from music theory and history.

**MUEN 1183, 1184, 2183, 2184 Class Voice I, II, III, IV**
1 Hour (2-1)
Class instruction in the fundamentals of correct breathing, tone production, and diction. Laboratory course designed for students with little or no previous voice training. Aids in developing a pleasing tone quality that is produced with ease and proper enunciation.

**OSHT 1301 Introduction to Safety and Health Technology**
3 Hours (3-0)
An introduction to the basic concepts of safety and health in an industrial environment. Students will learn and demonstrate proper safety procedures in a variety of industry and classroom settings.

**OSHT 1320 Energy Industrial Safety**
3 Hours (3-0)
An overview for industrial workers of state/federal regulations and guidelines which require industrial safety training. Topics include the 29 C.F.R. 1910, 1926 and National Fire Protection Association (NFPA) 70E standards such as confined space entry, emergency action, lock out/tag out, arc flash, and other work related subjects. Students will describe the basic components of safety, health, and environmental systems as defined by the Occupational Safety and Health Administration; describe Hazardous Waste Operator (HAZWOPER) standards; locate Material Safety Data Sheets (MSDS) and interpret the data; select and don Personal Protective Equipment (PPE); perform lock out/tag out procedures; complete a confined space and hot work permit; select and employ fall protection equipment; and fill out a Job Hazard Analysis (JHA).

**OSHT 1331, 1332, 2331, 2332 Music Theory I, II, III, IV**
3 Hours (3-3)
These courses employ Musical Instrument Digital Interface (MIDI). Students compose music on the computer; write music from a piano being played; record real time from microphones; sequence, store, and edit sounds; and overdub and mix blocks of sound.

**OSHT 1346, 2346 Musical Composition—MIDI I & II**
3 Hours (3-0)
Study and performance of works from the musical theatre repertoire. Topics explored include physical technique, practice methods, repertoire, style and interpretation, comfort in performance settings, improvisation, and appropriate concepts from music theory and history.

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**OSHT 1301 Introduction to Safety and Health Technology**
3 Hours (3-0)
First principles of chord progression and phrase harmonization. A study of more advanced chord structures and their placement within the phrase. The student receives a broad summary of classical harmony and then explores the techniques of the twentieth century. Written exercises, analysis, and correlated keyboard projects are required. Prerequisite: MUSI 1301 or a passing score on placement test.

**PHIL 1301 Introduction to Philosophy**
3 Hours (3-0)
“Introduction to Philosophy” samples the writings of thinkers who over the past 2500 years have challenged the human intellect with questions about the meaning of existence, the nature of reality, and the validity of knowledge. The course encourages students to re-examine and clarify their own beliefs and values.
All degrees with the exception of the AAS require students to complete the Core Curriculum. The Core Curriculum was established by the Texas legislature and the Texas Higher Education Coordinating Board to facilitate the transfer of courses between state supported institutions of higher education in Texas and to provide students with the basis of a liberal education. In order to obtain most degrees from a state supported institution in Texas, a student must complete the Core Curriculum. Thus, once a student has completed the Core Curriculum at one institution, it has been completed at all state supported institutions. Courses are chosen from the following areas. Consult degree programs for specific requirements. The required number of semester credit hours is noted in parenthesis beside each area.

### 010 - Communications (9)
ENGL 1301 and 1302, one course chosen from SPCH 1311, 1315, 1318, or 1321

### 020 - Mathematics (3)
MATH 1314, MATH 1316, MATH 1324, MATH 1414, MATH 2412, MATH 2413, MATH 2414, MATH 2415

### 030 - Natural Sciences (8)
BIOL 1406, BIOL 1407, BIOL 1408, BIOL 1409, BIOL 1424, BIOL 2401, BIOL 2402, BIOL 2421, CHEM 1405, CHEM 1411, CHEM 1412, GEOL 1401, GEOL 1403, GEOL 1404, GEOL 1405, GEOL 1447, PHYS 1401, PHYS 1402, PHYS 1403, PHYS 1404, PHYS 1415, PHYS 1417, PHYS 2425, PHYS 2426

### 040 - Humanities (3)
ENGL 2321, ENGL 2322, ENGL 2323, ENGL 2326, ENGL 2327, ENGL 2328, ENGL 2331, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2311, FREN 2312, GERM 2311, GERM 2312, HUMA 1301, HUMA 1302, LATI 2311, LATI 2312, PHIL 1301, PHIL 2303, PHIL 2306, SPAN 2311, SPAN 2312

### 050 - Visual and Performing Arts (3)
ARTS 1301, ARTS 1303, ARTS 1304, DRAM 1310, DRAM 2361, DRAM 2362, DRAM 2366, MUSI 1306, MUSI 1308, MUSI 1309, MUSI 1310

### 060 - 070 - 080 - Social and Behavioral Sciences (15)

#### U.S. History (6):
HIST 1301, HIST 1302, HIST 2301

#### Government/Political Science (6):
GOVT 2301, GOVT 2302

#### Other Social/Behavioral Sciences (3):
ANTH 2302, ANTH 2351, COMM 2300, ECON 2301, ECON 2302, GEOG 1303, HIST 2311, HIST 2312, PSYC 2301, SOCI 1301, SOCI 1306

### 090 - Fitness and Wellness (1)
KINE 1100, KINE 1101, KINE 1102, KINE 1103, KINE 1104, KINE 1105, KINE 1106, KINE 1107, KINE 1108, KINE 1109, KINE 1110, KINE 1113, KINE 1117, KINE 1118, KINE 1119, KINE 1120, KINE 1125, KINE 1126.

**Total:** 42 semester credit hours