DMSO 2357 Advanced Ultrasound Professionalism and Registry Review
3 Hours (3-1-0)
This capstone course covers the Sonographic profession principles and the scope of practice including legal and ethical issues for the sonographer. The following topics will also be covered in the course: department management procedures; application of advanced techniques and instrumentation; ergonomics of scanning and injury prevention; and essential concepts of registry preparation.

DMSO 2405 Sonography of Obstetrics/Gynecology
4 Hours (4-1-0)
This course is a detailed study of the pelvis and obstetrics/gynecology as related to scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols. Prerequisite: DMSO 1405.

DMSO 2460 Clinical III
4 Hours (0-0-23)
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: DMSO 1361.

DMSO 2461 Clinical IV
4 Hours (0-0-22)
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: DMSO 2460.

DRAM 1120, 1121, 2120, 2121 Rehearsal and Performance I, II, III, IV
1 Hour (0-3)
This is a practicum course that is designed to provide students with hands-on practical experience in theatre. Students will be assigned to specific duties as either a cast or crew member for productions at Midland College and Midland Community Theatre. Work hours can be tailored to an individual’s particular schedule. Students may repeat this course for up to four hours’ credit.

DRAM 1310 Theatre Appreciation
3 Hours (3-0)
This course is an introduction to theatre, designed to give students an understanding and appreciation for theatre as an art form and career choice. Students will study theatre practice and dramatic literature from various genres and periods and view at least one live performance.

DRAM 1330 Stagecraft I
3 Hours (3-0)
This course covers all basic areas of the art of stagecraft, including elementary drafting, scenic construction, carpentry, lighting, material selection and application, properties, costumes, sound, and elementary design.

DRAM 1351 Acting I
3 Hours (3-0)
Students are introduced to the basic skills and techniques of acting that are developed with individual work in the use of mind, body, and voice. Exercises in improvisation, relaxation, and open scenes illustrate and stress the importance of the working process.

DRAM 1352 Acting II
3 Hours (3-0)
This course is a continuation of Acting I with further development of mind, body, and voice. Students will also learn the process of character analysis through the preparation and performance of scenes from plays. Prerequisite: DRAM 1351 or permission of the instructor.

DRAM 2331 Stagecraft II
3 Hours (3-0)
Study and application of visual aesthetics of design which may include the physical theater, scenery construction and painting, properties, lighting, costume, makeup, and backstage organization.

DRAM 2336 Voice and Movement
3 Hours (3-0)
This course focuses on understanding the application of the performer’s use of the voice and body as effective creative instruments of effective communication. It encourages an awareness of the need for vocal proficiency and teaches techniques to improve speaking and mobility on stage.

DRAM 2361 History of the Theatre I
3 Hours (3-0)
This course covers the history of the theatre from the earliest times through the Renaissance, examining different aspects of the theatre such as historical staging and techniques, styles of acting, social and cultural context of drama, and themes and genres of plays produced.

DRAM 2362 History of the Theatre II
3 Hours (3-0)
This course is a continuation of History of the Theatre I, covering the time period from the Renaissance to the present.

DRAM 2366 Introduction to Film
3 Hours (3-1)
This course is an introduction to cinema, designed to give students an understanding and appreciation for cinema as an art form. Students will study the visual, aural, dramatic narrative, sociological, and historical elements of cinema. Students will study the terminology and techniques of filmmaking and will study various genres by viewing films.

DVLP 0190 Strategic Studies, non-course based remediation
1 Hour (1-0)

DVLP 0290 Strategic Studies, non-course based remediation
2 Hours (2-0)

DVLP 0390 Strategic Studies non-course based remediation
3 Hours (3-0)
These one, two, or three-credit hour courses above are designed to teach students how to enhance their prospects of being successful in college. The techniques that are taught include general-purpose learning strategies and content specific strategies. Computer related activities and instruction complement traditional methods of instruction.

ECON 2301 Principles of Macroeconomics
3 Hours (3-0)
The student will study macroeconomic concepts as they relate to the aggregate economy. Topics will include the public sector, GDP measurements, the Federal Reserve System, inflation and unemployment, and the different approaches to public policy.
ENGL 1301 Composition and Rhetoric
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.
ENGL 2323 British Literature Romantic Period through Contemporary
3 Hours (3-0)
A course designed to enable students to attain a historical perspective on the development of ideas and literary techniques by studying major authors, works, and trends in English literature from the late 18th century through the 20th century. Students will develop critical thinking, research, and writing skills. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302.

ENGL 2326 Masterworks of American Literature
3 Hours (3-0)
A course designed to permit intensive study of six to ten masterpieces of American literature from the nineteenth and twentieth centuries. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302.

ENGL 2327 Survey of American Literature to 1860
3 Hours (3-0)
A course designed to acquaint the student with the varied works of American literature from the Colonial Period through 1860 within the historical and multicultural influences that shaped those works. Students will discuss, research, and write about literature from the period. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302.

ENGL 2328 Survey of American Literature 1860 through Contemporary
3 Hours (3-0)
A course designed to acquaint the student with the varied works of American literature from 1860 to the present within the historical and multicultural influences that shaped those works. Students will discuss, research, and write about literature from the period. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302.

ENGL 2331 World Literature
3 Hours (3-0)
A course designed to enable students through reading assignments, class discussion, and written analysis to develop critical skills and to research writers and developments in English translations of literatures other than those of the United States and Western Europe. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302.

ENGL 2332 Masterpieces of the Western World to 1600
3 Hours (3-0)
A course designed to enable students to read, view, listen to, analyze, and discuss significant works from the ancient world through the Renaissance and further their research and writing skills. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302.

ENGL 2333 Masterpieces of the Western World: 1600 through Contemporary
3 Hours (3-0)
A course designed to enable students to read, view, listen to, analyze, and discuss significant works in the major periods of the Western literary tradition since 1600. Neoclassicism, Romanticism, Realism/Naturalism, Modern/Contemporary and further their research and writing skills. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302.

ENGL 2342 Forms of Literature I
3 Hours (3-0)
The study of one or more literary genres including, but not limited to, poetry and fiction. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302.

ENGL 2343 Forms of Literature II
3 Hours (3-0)
The study of one or more literary genres including, but not limited to, drama and film. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302.

ENGR 2302 Dynamics
3 Hours (3-0)
Calculus-based study of dynamics of rigid bodies, force-mass-acceleration, work-energy, and impulse-momentum computation. Prerequisite: Statics (ENGR 2301). Co-requisite: a third course in calculus (MATH 2415).

ESL 0170 Academic ESL: Oral Communication
1 Hour (1-1)
This course is designed to develop oral communication skills for the workplace and academics. Lab assignments will be individualized.

ESL 0171 Academic ESL: Developmental Composition for Non-Native Speakers
1 Hour (1-1)
This course is designed to develop written skills to apply to TOEFL and college entrance written exams. Lab assignments will be individualized.

ESL 0370 Academic ESL: Speaking and Listening
3 Hours (3-1)
This course is designed to develop basic English conversational skills in American cultural, employment, academic, and day-to-day situations for the beginning ESL student. Pronunciation, vocabulary, and simple sentence patterns will be emphasized. Lab assignments will be individualized.

ESL 0371 Academic ESL: Reading and Vocabulary
3 Hours (3-1)
This course is designed to develop basic reading comprehension, vocabulary, and study skills for non-native speakers of English and to prepare them to cope more effectively with reading requirements in other courses. Lab assignments will be individualized.

ESL 0372 Academic ESL: Grammar and Writing
3 Hours (3-1)
This course is designed to develop basic writing skills, including Standard English usage, and the application of grammar mechanics and vocabulary for non-native speakers of English in preparation for both academic and everyday writing. Lab assignments will be individualized.

ESL 0373 Academic ESL: Composition
3 Hours (3-1)
This course is designed to develop skills in expository writing and to prepare the advanced ESL student for college level composition. Vocabulary building, writing, literature, diction, and critical thinking are emphasized. Lab assignments will be individualized.
GERM 1412 Elementary German II
4 Hours (3-4)
This is a conversation course conducted primarily in German for the student who has completed German 1411 or its equivalent. Intensive oral-aural drill and classroom interaction will enable students to master the lexical and grammatical structures necessary in carrying on conversations in German. Prerequisite: GERM 1411.

GERM 2311 Intermediate German I
3 Hours (3-2)
This course is conducted in German, and it includes a comprehensive review of German grammar and structure. Through classroom drill, discussion, and composition, the course emphasizes vocabulary expansion and the acquisition of a basic knowledge of German culture and literature. Prerequisite: GERM 1412.

GERM 2312 Intermediate German II
3 Hours (3-2)
A course designed to provide fluency in spoken and written German through intensive grammar presentation and review, through conversational practice, and through composition and reading. The course is conducted in German. Prerequisite: GERM 2311.

GOVT 2301 Federal and State Government I
3 Hours (3-0)
This course is a comparative investigation of federal and state government. It covers the foundation and development of the constitutions of the United States and Texas (Federalism), local governments, political parties, and interest groups.

GOVT 2302 Federal and State Government II
3 Hours (3-0)
This is the introduction to the study of political science as a discipline-political philosophy, the theory and organization of the modern state, comparative political systems, and international relations.

GOVT 2311 Mexican-American Politics
3 Hours (3-0)
This course examines the historical and socio-political culture, and the political experience of Mexican-Americans at the local, state, and national level in the United States.

GOVT 2389 Government Internship
3 Hours (3-4)
This course is designed to integrate on-campus study with practical hands-on experience in government. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of government.

GRPH 1359 Object Oriented Computer Graphics
3 Hours (2-4)
Mastery of the tools and transformation options of an industry standard draw program to create complex illustrations and follow them through to the color output stage. Mastery in the use of basic elements of good layout and design principles and use of the capabilities specific to vector (object oriented) drawing software to manipulate both text and graphics with emphasis on the use of bezier curves. Acquisition of images via scanning and the creative use of clip art is included.

HART 1380, 2380 Cooperative Education
3 Hours (1-0-20)
Career related activities encountered in the student’s area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid work experience. This course may be repeated if topics and learning outcomes vary. The student is required to work for wages at least 20 hours per week in air conditioning, refrigeration or a related field.

HART 1391 Special Topics in Heating, Air Conditioning, and Refrigeration Technologies/Technicians
3 Hours (2-2)
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

HART 1401 Basic Electricity for HVAC
4 Hours (3-3)
Principles of electricity as required by HVAC, including proper use of test equipment, electrical circuits, and component theory and operation. The class will begin with basic electricity and progress through the study of transformers, power distribution, electric motors, motor controls and circuitry. The student will be introduced to the proper operation of various electrical meters and test instruments. This course, and HART 1407 must be taken first as the prerequisite to all the HART classes.

HART 1407 Refrigeration Principles
4 Hours (3-3)
An introduction to the refrigeration cycle, heat transfer theory, temperature/pressure relationship, refrigerant handling, refrigeration components and safety. The student will learn proper soldering and brazing techniques using oxy-acetylene and air-acetylene. The student will also be introduced to the proper use of hand tools and test instruments required in both service and installation. This course, and HART 1401 must be taken first as the prerequisite for all the other HART courses.

HART 1441 Residential Air Conditioning
4 Hours (3-3)
A study of components, applications, and installation of mechanical air conditioning systems including operating conditions, troubleshooting, repair, and charging of air conditioning systems. This course covers proper recovery, recycle, and reclaim procedures. The student will also study the chemical make-up of refrigerants and how they affect the atmosphere. Replacement refrigerants and the problems they pose will also be covered. The student will gain a working knowledge of the various components used in air conditioning and refrigeration systems. The student will study various refrigerant oils and the type refrigerants they are designed for. Prerequisite: HART 1401 and HART 1407.

HART 1445 Gas and Electric Heating
4 Hours (3-3)
A study of the procedures and principles used in servicing heating systems including gas fired and electric furnaces. The student will be introduced to proper testing and troubleshooting techniques. The class will cover proper wiring, gas controls, thermostats, spark ignition and venting procedures. Prerequisite: HART 1401.
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 Fundamental 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 Fundamental 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.
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 1342, 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**