### DAAC 2166 Practicum I
**1 Hour (0-10)**
Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences may be paid or unpaid. This course will focus on the 12 core functions of the addictions counselor and help prepare for the State of Texas oral exam. Student liability insurance purchased through Midland College is required for students enrolled in DAAC 2166. Pre-requisite: Successful completion of 18 semester hours of DAAC specialty courses, passing with an average of at least a 3.0 in all DAAC courses. Co-requisite: DAAC 2271.

### DAAC 2167 Practicum II
**1 Hour (0-10)**
Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student’s general and technical course of study. The guided external experiences may be paid or unpaid. This course will focus on the case presentation that is required for licensure in Texas. Student liability insurance purchased through Midland College is required for students enrolled in DAAC 2167. Pre-requisite: Successful completion of 18 semester hours of DAAC specialty courses, passing with an average of at least a 3.0 in all DAAC courses and completion of DAAC 2166. Co-requisite: DAAC 2272.

### DAAC 2271 Core Functions
**2 Hours (2-0)**
Classroom lectures will prepare the student for written and oral testing. The registration process and completion of an Oral Presentation that meets the guidelines of the certification board. In addition, these workplace experiences will be processed in the classroom. Students will categorize previously learned knowledge from prior DAAC courses into a framework that will be applied for the counseling and state examination experience. Co-requisite: DAAC 2166.

### DAAC 2272 Case Presentation Method
**2 Hours (2-0)**
Classroom lectures will prepare the student for written and oral testing at the state level and the registration process and completion of a Case Presentation that meets the guidelines of the certification board. In addition, these workplace experiences will be processed in the classroom. Prerequisite: DAAC 2271. Co-requisite: DAAC 2167.

### DAAC 2307 Addicted Family Intervention
**3 Hours (3-0)**
An introduction to the family as a dynamic system focusing on the effects of addiction pertaining to family roles, rules, and behavior patterns. Discuss the impact of mood altering substances and behaviors and therapeutic alternatives as they relate to the family from a multicultural and transgenerational perspective. Prerequisite or Co-requisite: DAAC 1319.

### DAAC 2330 Multicultural Counseling
**3 Hours (3-0)**
Cross-cultural competency skills and cultural diversity-training for specific use with persons of a different race or ethnicity than the counselor. Courses and class activities will be focused on specific race-ethnicity based cultures and subcultures, reducing or ameliorating the effects of racism, and development of specific cross-cultural competencies.

### DAAC 2380 Cooperative Education III
**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 the student. Under supervision of the college and employer, the student combines classroom learning with work experience. The knowledge, skills and attitudes, directly related to the profession will guide the student through the work experience. Prerequisite: “P” in DAAC 1380.

### DAAC 2381 Cooperative Education IV
**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 the student. Under supervision of the college and employer, the student combines classroom learning with work experience. The knowledge, skills and attitudes, directly related to the profession will guide the student through the work experience. Prerequisite: “P” in DAAC 2380.

### DEMR 1305 Basic Electrical Systems
**4 Hours (3-3)**
This course will focus on special skills and techniques in the application of counseling skills for the Alcohol and Other Drug (AOD) client. Design and utilization of treatment planning using a treatment team approach will be introduced. Confidentiality and ethical issues will be reviewed and practiced. Prerequisite or Co-requisite: DAAC 1319.

### DAAC 2380 Cooperative Education III
**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 the student. Under supervision of the college and employer, the student combines classroom learning with work experience. The knowledge, skills and attitudes, directly related to the profession will guide the student through the work experience. Prerequisite: “P” in DAAC 2380.

### DAAC 2381 Cooperative Education IV
**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 the student. Under supervision of the college and employer, the student combines classroom learning with work experience. The knowledge, skills and attitudes, directly related to the profession will guide the student through the work experience. Prerequisite: “P” in DAAC 2380.

### DAAC 2441 Counseling Alcohol and Other Drug Addictions
**4 Hours (3-3)**
This course will focus on special skills and techniques in the application of counseling skills for the Alcohol and Other Drug (AOD) client. Design and utilization of treatment planning using a treatment team approach will be introduced. Confidentiality and ethical issues will be reviewed and practiced. Prerequisite or Co-requisite: DAAC 1319.

### DAAC 2454 Dynamics of Group Counseling
**4 Hours (3-3)**
An introduction to the patterns and dynamics of group interactions across the life span. Focus includes group therapy, structure, types, stages, development, leadership, therapeutic factors, the impact of groups on the individual, group growth, and behavior. Effective group facilitation skills and techniques used to address special population issues and needs are covered. Effective case management and record keeping are addressed. Prerequisite or Co-requisite: DAAC 2441.

### DEMR 1305 Basic Electrical Systems
**3 Hours (2-4)**
Basic principals of electrical systems of diesel powered equipment with an emphasis on starters, alternators, and batteries. Students will perform circuit analysis, identify electrical symbols and use specialized tools to test various electrical circuits. Prerequisite: DEMR 1329.

### DEMR 1306 Diesel Engine I
**3 Hours (2-4)**
An introductory course on diesel engines covering the basic principals and systems. Students will learn the history of diesel engines, systems and evolution, and how they function. Utilize precision instruments to diagnose and repair basic systems and engines.
**DEM 1310 Diesel Engine Testing and Repair I**
3 Hours (2-4)
Introduction to testing and repairing diesel engines including related systems and specialized tools. Learn to identify, inspect, test and measure, and disassemble engine parts.

**DEM 1317 Basic Brake Systems**
3 Hours (2-4)
Basic principles of brake systems of diesel powered equipment with an emphasis on maintenance, repairs, and troubleshooting. Understand the basic theory and operation of the brake systems, diagnose brake components for wear and usability, repair brake components by rebuilding or replacing parts, and adjust brake components.

**DEM 1321 Power Train I**
3 Hours (2-4)
Fundamental repair and theory of power trains including clutches, transmissions, drive shafts, and differentials. Emphasis on inspection and repair. Prerequisite: DEM 1329.

**DEM 1323 Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair**
3 Hours (2-4)
Introductory course on heating, ventilation and air conditioning theory, testing, and repair. Emphasis on refrigerant reclamation, safety procedures, specialized tools, and repairs.

**DEM 1329 Preventive Maintenance**
3 Hours (2-3)
An introductory course designed to provide the student with basic knowledge of proper servicing practices. Content includes record keeping and condition of major systems and overview of written portion of the Texas Commercial Drivers License test.

**DEM 1330 Steering and Suspension I**
3 Hours (2-4)
An introductory course covering the design, functions, and repair of steering suspension systems. Students will troubleshoot and repair failed components or replace parts on various steering and suspension systems.

**DEM 1335 Automatic Power Shift and Hydrostatic Transmissions I**
3 Hours (2-4)
A study of the operation, maintenance, and repair of automatic power shift hydrostatic transmissions. Prerequisite: DEM 1335

**DEM 1403 Basic Driving Skills**
4 Hours (2-6)
Introduction to the use of a class 8 combination vehicle. Emphasis on safe operation and driving skills in preparation to obtain a Texas commercial Drivers License (CDL). Prerequisite: DEMR 1329 (Special lab fees apply)

**DEM 2312 Diesel Engines Testing and Repair II**
3 Hours (2-4)
Coverage of testing and repairing diesel engines including related systems specialized tools. Learn to disassemble and reassemble engine parts. Prerequisite: DEMR 1310.

**DEM 2332 Electronic Controls**
3 Hours (2-4)
Advanced skills in diagnostic and programming techniques of electronic control systems. Prerequisite: DEMR 1305

**DEM 2334 Advanced Diesel Tune-Up and Troubleshooting**
3 Hours (2-4)
Advanced concepts and skills required for tune-up and troubleshooting procedures of diesel engines. Emphasis on the science of diagnostics using specialized tools and advanced concepts. Prerequisite: DEMR 1310.

**DFTG 1305 Technical Drafting**
3 Hours (2-4)
Introduction to the principles of drafting to include terminology and fundamentals, projection methods, geometric construction, sections, auxiliary views, and reproduction processes. Software: AutoCAD

**DFTG 1309 Basic Computer-Aided Drafting**
3 Hours (2-4)
An introduction to basic computer-aided drafting. Emphasis is placed on drawing setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinating systems; as well as input and output devices. Co-requisite: DFTG 1305. Software: AutoCAD.

**DFTG 1317 Architectural Drafting - Residential**
3 Hours (2-4)
Architectural drafting procedures, practices, and symbols, including preparation of detailed working drawings for residential structure with emphasis on light frame construction methods. Prerequisite: DFTG 1309. Software: AutoCAD Architecture.

**DFTG 1345 Parametric Modeling and Design**
3 Hours (2-4)
Use of parametric-based design software for 3D design and drafting. Emphasis on the parametric modeling techniques used to create rendered assemblies, orthographic drawings, auxiliary views, and details from 3-dimensional models. Prerequisite: DFTG 2340. Software: Autodesk Inventor.

**DFTG 1325 Blueprint Reading and Sketching**
3 Hours (3-0)
An introduction to reading and interpreting working drawings for fabrication processes and associated trades. Use of sketching techniques to create pictorial and multiple-view drawings.

**DFTG 1391 Special Topics in Drafting**
3 Hours (2-4)
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.

**DFTG 2302 Machine Drafting**
3 Hours (2-4)
Production of detail and assembly drawings of machines, threads, gears, cams, tolerances and limit dimensioning, surface finishes, and precision drawings. Prerequisite: DFTG 1309. Software: AutoCAD.

**DFTG 2306 Machine Design**
3 Hours (2-4)
Theory and practice of design. Projects in problemsolving, including press fit, bolted and welded joints, and transmission components. Prerequisites: DFTG 2340 Software: Autodesk Inventor.
MATH 2420 Differential Equations
4 Hours (4-0)
This course is designed to produce student proficiency in first order equations, linear differential equations, differential operators, Laplace transforms, and the applications of differential equations. It also introduces power series methods, linear systems, and numerical methods. Prerequisite: Requires a “C” or greater in MATH 2415. Course fee.

MCHN 1320 Precision Tools and Measurement
3 Hours (3-0)
An introduction to the modern science of dimensional metrology. Emphasis on the identification, selection, and application of various types of precision instruments associated with the machining trade. Practice of basic layout and piece part measurements while using standard measuring tools.

MRKG 1311 Principles of Marketing
3 Hours (3-0)
Introduction to the marketing mix functions and process. Includes identification of consumer and organizational needs and explanation of environmental issues. Students will identify the marketing mix components in relation to market segmentation; explain the environmental factors which influence consumer and organizational decision-making processes; and outline a marketing plan.

MUAP 1166, 1167 Woodwind Instruments I, II
1 Hour (2-1)

MUAP 1168 Brass Instruments
1 Hour (2-1)

MUAP 1169, 1170, 2169, 2170 Brass Instruction I, II, III, IV
1 Hour (0-2)

MUAP 1171, 1172, 2171, 2172 String Instruction I, II, III, IV
1 Hour (0-2)

MUAP 1173, 1174, 2173, 2174 Percussion Instruction I, II, III, IV
1 Hour (0-2)

MUAP 1175, 1176, 2175, 2176 Woodwind Instruction I, II, III, IV
1 Hour (0-2)

MUAP 1177, 1178, 2177, 2178 Keyboard Instruction I, II, III, IV
1 Hour (0-2)
Intermediate piano. A series of courses designed to provide students with the skills necessary to perform artistically at the piano in a variety of performance settings. One 30-minute private lesson per week. Prerequisite: Instructor’s permission.

MUAP 1179, 1180, 2179, 2180 Voice Instruction I, II, III, IV
1 Hour (0-2)

MUAP 1188 Percussion Instruments
1 Hour (2-1)

MUAP 1190, 2190 String Instruments I, II
1 Hour (2-1)

MUAP 1269, 1270, 2269, 2270 Brass Instruction I, II, III, IV
2 Hours (0-2)

MUAP 1271, 1272, 2271, 2272 String Instruction I, II, III, IV
2 Hours (0-2)

MUAP 1273, 1274, 2273, 2274 Percussion Instruction I, II, III, IV
2 Hours (0-2)

MUAP 1275, 1276, 2275, 2276 Woodwind Instruction I, II, III, IV
2 Hours (0-2)

MUAP 1277, 1278, 2277, 2278 Keyboard Instruction I, II, III, IV
2 Hours (0-2)
Advanced Piano. Prerequisite: MUSI 2178 or instructor’s permission.

MUAP 1279, 1280, 2279, 2280 Keyboard Instruction I, II, III, IV
2 Hours (0-2)
Advanced piano. A series of courses designed to provide students with the skills necessary to perform artistically at the piano in a variety of performance settings. One 60-minute private lesson per week. Prerequisite: Instructor’s permission.

MUAP 2240 Instrumental Techniques
2 Hours (2-2)

MUEN 1121, 1122, 2121, 2122 Wind Ensemble I, II, III, IV
1 Hour (0-5)

MUEN 1123, 1124, 2123, 2124 Band I, II, III, IV
1 Hour (0-5)

MUEN 1125, 1126, 2125, 2126 Orchestra I, II, III, IV
1 Hour (0-5)

MUEN 1131, 1132, 2131, 2132 Studio Ensemble I, II, III, IV
1 Hour (0-4)

MUEN 1133, 1134, 2133, 2134 Brass Ensemble I, II, III, IV
1 Hour (0-4)

MUEN 1135, 1136, 2135, 2136 String Ensemble I, II, III, IV
1 Hour (0-4)

MUEN 1137, 1138, 2137, 2138 Woodwind Ensemble I, II, III, IV
1 Hour (0-4)

MUEN 1139, 1140, 2139, 2140 Percussion Ensemble I, II, III, IV
1 Hour (0-4)

MUEN 1141, 1142, 2141, 2142 Chamber Singers I, II, III, IV
1 Hour (0-5)

MUEN 1143, 1144, 2143, 2144 Chorale I, II, III, IV
1 Hour (0-5)

MUEN 1145, 1146, 2145, 2146 Women’s Choir I, II, III, IV
1 Hour (0-5)
MUSI 1301 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.

MUSI 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.

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 student 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.

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 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**