<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSME 1505</td>
<td>Fundamentals of Cosmetology</td>
<td>5</td>
<td>A course in the basic fundamentals of cosmetology. Topics include hair care, makeup, chemical services, shampoo, haircut, wet styling, and comb out.</td>
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<tr>
<td>CSME 1551</td>
<td>Artistry of Hair, Theory and Practice</td>
<td>5</td>
<td>This course is an instruction in the artistry of hair design. Topics included in the course include theory, techniques, and application of hair design.</td>
</tr>
<tr>
<td>CSME 1553</td>
<td>Chemical Reformation and Related Theory</td>
<td>5</td>
<td>Presentation of the theory and practice of chemical reformation including terminology, application, and workplace competencies.</td>
</tr>
<tr>
<td>CSME 2302</td>
<td>Introduction to Application of Hair Color</td>
<td>3</td>
<td>Introduction of various basic hair color applications including safety and sanitation procedures.</td>
</tr>
<tr>
<td>CSME 2337</td>
<td>Advanced Cosmetology Techniques</td>
<td>3</td>
<td>Mastery of advanced cosmetology techniques including hair designs, professional cosmetology services, and workplace competencies.</td>
</tr>
<tr>
<td>CSME 2343</td>
<td>Salon Development</td>
<td>3</td>
<td>Application of procedures necessary for salon development. Topics include professional ethics and goals, salon operation, and record keeping.</td>
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<tr>
<td>CSME 2345</td>
<td>Preparation for the State Licensing Practical Examination</td>
<td>3</td>
<td>Preparation for the state licensing practical examination.</td>
</tr>
<tr>
<td>CSME 2401</td>
<td>The Principles of Hair Coloring and Related Theory</td>
<td>4</td>
<td>Presentation of the theory, practice, and chemistry of hair color. Topics include terminology, application, and workplace competencies related to hair color.</td>
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<tr>
<td>CSME 2410</td>
<td>Advanced Hair Cutting and Related Theory</td>
<td>4</td>
<td>Advanced concepts and practice of hair cutting. Topics include haircuts utilizing scissors, razor, and/or clippers.</td>
</tr>
<tr>
<td>CSME 2441</td>
<td>Preparation for the State Licensing Examination</td>
<td>4</td>
<td>Preparation for the state licensing examination.</td>
</tr>
<tr>
<td>CTEC 1441</td>
<td>Applied Instrumental Analysis I</td>
<td>4</td>
<td>Principles of instrumental analysis. Topics include chromatography, spectroscopy, and electroanalytical chemistry. Pre-requisite: CHEM 2423.</td>
</tr>
<tr>
<td>CTEC 2371</td>
<td>Sample Preparation</td>
<td>3</td>
<td>Preparatory techniques for the purification of crude materials and samples for the isolation of target analytes. Includes acid/base digestion of samples, filtration, liquid-liquid extraction, solid-phase extraction, column chromatography, thin-layer chromatography, and distillation. Pre-requisite: CHEM 1411.</td>
</tr>
<tr>
<td>CTEC 2431</td>
<td>Applied Instrumental Analysis II</td>
<td>4</td>
<td>Advanced topics in instrumental analysis. Topics include atomic absorption, inductively coupled plasma, nuclear magnetic resonance, gas chromatography/mass spectrometry, liquid chromatography, and infrared spectroscopy. Pre-requisite: CTEC 1441.</td>
</tr>
<tr>
<td>DAAC 1309</td>
<td>Assessment Skill of Alcohol and Other Drug Addictions</td>
<td>3</td>
<td>Examines procedures by which a counselor/program identifies and evaluates an individual’s strengths, weaknesses, problems, and needs which will be used in the development of a treatment plan. Prepares the student to appropriately explain assessment results and individual rights to clients. Pre-requisite or Co-requisite: DAAC 1319.</td>
</tr>
<tr>
<td>DAAC 1311</td>
<td>Counseling Theories</td>
<td>3</td>
<td>An introduction to major theories of various treatment modalities including Reality therapy, Psycho-dynamic therapy, grief therapy, Client-centered therapy, Rational-Emotive Therapy, cognitive-behavioral approaches such as life skills training, behavior modification, and the introduction to experiential therapies as they relate to detoxification, residential, outpatient, and extended treatment. Pre-requisite or Co-requisite: DAAC 1319.</td>
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<tr>
<td>DAAC 1319</td>
<td>Introduction to Alcohol and Other Drug Addiction</td>
<td>3</td>
<td>Causes and consequences of addiction as they are related to the individual, family, community, and society are discussed. Response alternatives regarding intervention, treatment, education, and prevention are reviewed. Competencies and requirements for licensure in Texas are explained. Addiction issues related to diverse populations are presented.</td>
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<tr>
<td>DAAC 1380</td>
<td>Cooperative Education</td>
<td>3</td>
<td>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: Proof of Licensed Chemical Dependency Counselor Intern status.</td>
</tr>
<tr>
<td>DAAC 1381</td>
<td>Cooperative Education II</td>
<td>3</td>
<td>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.</td>
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DAAC 2319. 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 DAAC1380.

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 DAAC2380.

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.
PSYC 2311 Adult Development
3 Hours (3-0)
This course covers the latter part of the human development process. It focuses on psychological, cognitive and environmental factors that shape human behavior from adolescence through the remainder of life. Prerequisite: PSYC 2301 or permission by instructor.

PSYC 2314 Life-Span Growth and Development
3 Hours (3-0)
This course is a survey course dealing with the study of the relationships among physical, emotional, social and mental factors of human growth and development from birth throughout the entire life-span. Emphasis is on scientific research, fundamental issues, and major psychological theories used to explain development. Prerequisite: PSYC 2301 or permission of instructor.

PSYC 2315 Psychology of Adjustment
3 Hours (3-0)
This course is the study of the processes involved in the adjustment of individuals to their personal and social environments. Students will learn about the theories and practices used in the counseling profession with various populations having adjustment problems. Prerequisite PSYC 2301 or permission of instructor.

PSYC 2319 Social Psychology
3 Hours (3-0)
“Social Psychology” is the study of how the thoughts, feelings, and behaviors of individuals are influenced by the actual, imagined, and implied presence of others. Also SOCI 2326.

PSYT 1372 Relationship Skills
3 Hours (3-0)
The student will be introduced to the study of twenty-first century emotional and sexual intimacy factors within relationships, emphasizing relationship distress, dysfunction and divorce.

PSYT 2331 Abnormal Psychology
3 Hours (3-0)
The study of the theories and processes involved in the dually diagnoses client and treatment of mental disorders. Specify abnormal behavior and its modification; discuss the multi-axial system of diagnosis from the universal diagnostic classification codes; and determine the correct diagnosis given a vignette.

PSYT 2345 Principles of Behavior Modification and it’s Management
3 Hours (3-0)
A study of behavior management and cognitive theories and techniques with emphasis on their applications. Summarize behavior management and cognitive theories; and discuss the applications of behavior management and cognitive techniques.

PRTT 1301 Introduction to Petroleum Industry
3 hours (2-2)
An introduction to the various aspects of petroleum industry including equipment, systems, instrumentation, operations, and the various scientific principles. Addresses a variety of petroleum technologies: exploration, drilling, production, transportation, marketing, and chemical processing industries. Students will identify the concepts of exploration, production, refining, marketing, and transportation; and describe the terms and phrases associated with the petroleum industry.

PRTT 1309 Corrosion Basics
3 hours (2-2)
Principles of corrosion such as basic electrochemistry processes. Addresses the deterioration of materials, devices, or pieces of oil field (or other) machinery/equipment. Emphasis on terminology associated with metallic and nonmetallic corrosion. Students will distinguish between the causes of corrosion; state methods by which corrosion can be identified, monitored, and controlled. Communicate potential field problems and recommend the most reliable solutions.

PRTT 1324 Petroleum Instrumentation
3 hours (2-2)
Study of instruments, instrument systems, terminology, process variables, and control loops as used in a petroleum environment. Students will describe the basic instrumentation used in modern process control; identify the basic instruments used with temperature, pressure, levels, flow, and analytical applications; and describe the basic components of a control loop.

PRTT 2371 Petroleum Geology for Non-Geologists
3 hours (2-2)
Earth systems, rocks and minerals, sedimentology and stratigraphy, geologic time and history of Earth, structural geology, folding and faulting, origin, nature, and occurrence of petroleum, formation names, and evolution of the Permian Basin. Also discussed is oil in the Permian Basin - trends, plays, and petroleum systems, surface and subsurface mapping methods, working with logs, sources of data, well-site operations, and formation evaluation. Students will explain geological concepts and processes as related to the exploration and exploitation of hydrocarbons; use a working knowledge of geology and associated terminology to effectively interact with engineers, geologists, landmen, and associated disciplines within the energy industry; utilize and evaluate surface and subsurface maps, well logs, well site and formation reservoir data.

PRTT 2372 Petroleum Data Loading
3 hours (2-2)
Data types and usages, table set ups and definitions for software and server loading of petroleum data, standard formats (ASCII, Excel and direct links) for production, borehole geophysical logs (LAS, LIS), seismic volumes (SEGY, SEGPI), GIS data (SHAPE files) and horizons (DAT) as well as formatting unstructured electronic data (spreadsheets) for proper loading into geologic and geophysical software applications and transferring data between applications. General techniques for quality checking the validity of the data loading will be presented specific to the data type. Also covers exporting formats with data transfer. Public and private data sources will be explored and examples used. Students will install software licenses on both standalone and network systems; describe file system structure and navigation; perform queries; and retrieve and export data. Manage and manipulate data and data files; create and manage a project; import/export cartographic, lease, well information, seismic, log, and spreadsheet data from and to external sources; load and manage general well information, including well logs (both in ASCII and binary format), seismic data and cultural data; transfer data between different software applications; and export and import graphs and reports.

READ 0270 Intermediate Reading I
1 Hour (0-2)
A lab course providing individual instruction in college reading readiness.