COURSE DESCRIPTIONS

The following course descriptions are intended to briefly describe the nature of each of the courses. For more complete information, departments or faculty can provide specific course syllabuses.

The numbers in the right side of each description define the credits and average weekly contact hours the student will spend in formal classes during a 16 week semester. Classes scheduled for other than a 16 week semester will have the contact hours adjusted accordingly.

A – defines the number of semester credits
B – average number of lecture hours per week
C – average number of laboratory hours per week
D – average number of clinical hours per week
E – average number of other formal instructional hours per week

In addition to these hours, students are expected to complete homework assignments on their own time. These assignments may include library research, computer utilization, field trips, cultural performances, and other instructional activities.

EXAMPLE

ENG 101 Composition I 3 (3,0,0,0)
3 credits
3 lecture hours
0 laboratory hours
0 clinical hours
0 other hours

Architectural Design Technology

AAD 180 Fundamentals of Design I 3 (2,2,0,0)
Introduction to the principles and theories of design and design methodology in the “making” of representations of form and space.

AAD 182 Fundamentals of Design II 3 (2,2,0,0)
Continuation of AAD 180, with emphasis on spatial sequence, tectonics, and design precedents.
Prerequisite: AAD 180.

Architecture

AAE 100 Introduction to Architecture 3 (3,0,0,0)
Survey of architecture. Includes historical examples and the theoretical, social, technical, and environmental forces that shape this profession. Especially for majors and non-majors who wish to explore this field as a career choice.

Automotive Technology, Collision and Repair

ABDY 101B Collision Repair Fundamentals and Estimating 4 (1,6,0,0)
This lecture/lab course includes an overview of the collision industry, instruction in safe shop procedures, measurement, vehicle disassembly, and estimating software and techniques. Successful students will earn I-CAR certification points.

ABDY 110B Paint and Refinish I 4 (1,6,0,0)
This course provides instruction in all phases of metal preparation: sanding, masking, metal treatment, priming, as well as spraying basecoat and clear coat and the proper use and maintenance of paint guns.

ABDY 120B Non-Structural Welding 4 (1,6,0,0)
This course prepares the student in general welding safety, Plasma Arc Cutting, Oxy and Acetylene welding, cutting, heating and GMAW MIG welding techniques. Students will be prepared to take the I-CAR hands on steel welding test.

ABDY 122B Non-Structural Body and Panel and Trim 4 (1,6,0,0)
This course covers the proper techniques for removal, installation, adjustment, and alignment of body hardware, body trim, and body sheet metal parts (using basic hand tools).

ABDY 150B Structural I 4 (1,6,0,0)
Introduction to specialized frame and unibody measuring, anchoring, and pulling equipment. The student will perform welding techniques and use corrosion preventive materials to restore the vehicle as closely as possible to pre-collision condition.
Prerequisite: ABDY 120B or Instructor approval.
ABDY 152B  Structural II  4 (1,6,0,0)
This course prepares the student in the repair of moderate to heavily damaged vehicles using specialized frame and unibody measuring, anchoring, and pulling equipment. Continued instruction in welding techniques and corrosion preventive materials to restore the vehicle as closely as possible to pre-collision condition is included.
Prerequisite: ABDY 150B or Instructor approval.

ABDY 180B  Non-Structural Advanced Body Panel  4 (1,6,0,0)
This course covers the identity of auto body parts and their structural relationships. Removal, installation, adjustment, and alignment of body hardware, body trim, and body sheet metal parts (using basic hand tools) are skills that are mastered in this course.
Prerequisite: ABDY 122B or Instructor approval.

ABDY 220B  Paint and Refinish II  4 (1,6,0,0)
This course covers metal preparation, sanding, masking, metal treatment, and priming. Spraying of basecoat and clear coat, color matching, blending, and the proper care of a paint gun are also included. Students will learn blending, color adjusting and tinting.
Prerequisite: ABDY 110B or Instructor approval.

Air Conditioning Technology

AC 100B  Technician Certification Review  0.5 (0.5,0,0,0)
A lecture course to prepare students for certification exam, devoted to all aspects of EPA regulatory requirements under Section 608 of the Clean Air Act.

AC 101B  Introduction to HVAC and Refrigeration  3 (2,3,0,0)
This is an introduction course covering the mechanical and electrical functions of a HVAC system and the basic refrigeration cycle. This course will prepare students for the EPA 608 certification.

AC 102B  Introduction to HVAC Electrical Theory and Application  5 (4,2,0,0)
This course covers electrical safety, basic electrical math, elementary circuit diagram reading and drawing, and motor theory. Labs cover: assembly and wiring techniques, and the use of electrical meters.

AC 103B  Introduction to HVAC Mechanical Theory and Application  5 (4,2,0,0)
This course covers mechanical and electrical safety, basic mechanical math and physics, the refrigeration cycle, system components, enthalpy, and psychrometrics. Labs cover: recovery, evacuation, leak testing, charging, and system measurements.

AC 106B  Residential Gas Heating  5 (4,2,0,0)
Types of gas furnaces, troubleshooting, function of controls, repair of mechanical controls, combustion efficiency tests, piping techniques, proper ventilation and combustion will be covered.
Prerequisites: AC 102B and AC 103B.

AC 110B  Intermediate HVAC Electrical Theory and Application  5 (4,2,0,0)
This course covers intermediate level electrical diagram drawing and interpretation, enthalpy and psychrometrics, and specialized system components for resistance heat HVAC. Labs cover: wiring of various control circuits, and system measurements.
Prerequisites: AC 102B and AC 103B and MATH 104B or above (except MATH 122 and MATH 123).

AC 111B  Heat Pumps  5 (4,2,0,0)
This course covers heat pumps and their operation. It will teach various defrost methods including time temperature, demand, air switch and other defrost controls. Charging methods which include superheat, weigh-in and dial-a-charge. The course will also include compressor change out methods and advance wiring. C.O.P., E.E.R., SEER rating and design points of heat pumps.
Prerequisite: AC 110B.

AC 114B  Heat Load Calculations  5 (4,2,0,0)
The course will teach heat gain and loss using the J-Manual and worksheets. Students will be taught to do calculations on micro-computers. Also included in this course are the factors affecting system design and design procedures using Manual-D.
Prerequisite: MATH 104B or MATH 116 or above (except MATH 122, 123).

AC 115B  Troubleshooting  5 (4,2,0,0)
This course will teach recommended service and diagnosis procedures for air conditioning systems. This will include general troubleshooting procedures for both refrigeration and electrical systems.
Prerequisites: AC 106B and AC 111B.

AC 116B  Copper Fundamentals  1 (1,0,0,0)
Silver brazing, Oxy-Acetylene equipment, use of copper tubing, swagging, flaring, bending, and proper cutting techniques in air conditioning applications will be covered.

AC 119B  Professionals in Customer Service  1.5 (1.5,0,0,0)
This course introduces a methodical approach to problem resolution to service professionals (dispatchers, technicians, owners). It is also designed to contain, qualify, and correct various problems with good and bad outcomes. This course instructs students to focus on their communication skills prior to using technical expertise.
AC 120B  Air Conditioning
Duct Work Fabrication 3 (2,2,0,0)
This course covers basic duct work fabrication, as it applies to the Air Conditioning industry. Areas covered include cutting, computing size requirements, plenums and straight fittings.

AC 200B  Commercial Refrigeration I 5 (4,2,0,0)
An introduction to commercial refrigeration. Deals with system components, mechanical and electrical controls, random and planned defrost, various accessories, application and types of refrigeration systems and troubleshooting basic commercial systems.
Prerequisites: AC 110B and either ENG 107 or COM 115.

AC 201B  HVAC Automatic Controls 3 (2,2,0,0)
This course presents basic control theory of HVAC mechanical systems to maximize their operating efficiency in commercial and industrial applications. Topics include Direct Digital Controls (DDC), electric, pneumatic and electronic components, control applications including microprocessors, and energy management.
Prerequisites: AC 110B.

AC 202B  Commercial Refrigeration II 5 (4,2,0,0)
This course covers sequence of operation, application, troubleshooting, repair, cleaning, and preventive maintenance techniques of various types of ice making equipment including flaked, cubed, and crushed ice machines.
Prerequisite: AC 200B

AC 210B  Boiler Operation and Maintenance 5 (4,2,0,0)
This course covers operations, safety, water treatment, control devices used with hot water boilers, low pressure boilers, and power boiler systems.
Prerequisite: AC 106B

AC 211  Transport Refrigeration 2 (1,2,0,0)
This course covers maintenance, diagnosis, and repair of trailer mounted refrigeration systems. Proper refrigerant handling, EPA regulations and certifications are covered and students will be prepared for any required certification processes.
Prerequisite: DT 165 or Instructor approval.

AC 212  Equipment Cooling 5 (4,2,0,0)
An advanced course that prepares students to analyze different requirements and needs for maintaining exact temperature and humidification requirements of critical systems and process cooling systems used in data processing plants; hospitals; surgical centers; manufacturing facilities; and power distribution equipment. Topics include: system identification, controls used for process cooling equipment, humidification, ultraviolet cleaning, and filtration of air and water.
Prerequisite: AC 110B.

AC 220B  Chiller Operations and Maintenance 5 (4,2,0,0)
This course prepares students for all necessary operations and prevention maintenance procedures for employment in central plant operations for high and low pressure chillers. Subjects to include: operation, safety, controls, pumps, maintenance, purge units and cooling towers.
Prerequisite: AC 110B

AC 221B  Gas Heat Pump Technology I 5 (4,2,0,0)
The student will learn the basics of gas heat pumps. Included will be an introduction to the various products, controls, and equipment. Basic operational theory and application will be explored as well as an introduction to installations. R-410a, electrical and mechanical safety will also be covered, designed to give the student a good overview of this technology.
Prerequisite: AC 111B.

AC 295B  Internship HVAC Career 1-16 (0,0,0,15-90)
This course is designed to provide practical experience applying the HVAC (Heating, Ventilation and Air Conditioning) theory and techniques gained in other CSN HVAC courses through on-the-job experience while working alongside experienced HVAC technicians.

Accounting

ACC 105  Taxation for Individuals 3 (3,0,0,0)
Development of the individual taxpayer’s taxable income through an analysis of income, exemptions, deductions and credits.

ACC 135B  Bookkeeping I 3 (3,0,0,0)
Introduction to the basic principles of bookkeeping and accounting, theory of debit and credit, the bookkeeping cycle, journals, ledgers, bank reconciliations and payroll.

ACC 201  Financial Accounting 3 (3,0,0,0)
Basic accounting techniques with emphasis on the accounting cycle, analysis of financial statements, payables and receivables, plant assets, inventories and internal controls for cash.

ACC 202  Managerial Accounting 3 (3,0,0,0)
Accounting methods and techniques utilized by corporations, cost systems, budgeting, and the utilization of accounting data for planning and control.
Prerequisite: ACC 201.

ACC 203  Intermediate Accounting I 3 (3,0,0,0)
Accounting for assets and liabilities, concepts and techniques concerning preparation and analysis of the balance sheet, essentials of interest, annuities and present value.
Prerequisite: ACC 202.
ACC 204  Intermediate Accounting II  3 (3,0,0,0)
Accounting for stockholders’ equity, statement of cash flows, statement analysis, pensions and leases.
Prerequisite: ACC 203.

ACC 205  Cost Accounting  3 (3,0,0,0)
Cost concepts and decision making, break even techniques, budgets and management analysis.
Prerequisite: ACC 201.

ACC 210B  IRS Computerized Tax Preparation Program  3 (3,0,0,0)
Hands-on experience preparing computerized individual income tax returns utilizing the I.R.S. Electronic Filing System.
Prerequisite: ACC 105.

ACC 220  Microcomputer Accounting Systems  3 (3,0,0,0)
Develop skills in the use of computerized accounting. Interact with on-line realistic computerized accounting systems. Primary objective will be to focus on an applications approach using actual business case studies.
Prerequisite: ACC 201.

ACC 222B  Accounting Using Spreadsheets  3 (3,0,0,0)
Application of spreadsheet functions using the most popular spreadsheet program, Excel. Techniques covered will be creating and printing a worksheet, working with files, setting up data bases, and enhancing accounting information with the use of graphs and macros.
Prerequisite: ACC 201.

ACC 223B  Introduction to QuickBooks  3 (3,0,0,0)
Computerized Accounting with QuickBooks is designed to introduce students to the QuickBooks accounting program. The student will receive hands-on training in the use of QuickBooks using fictitious case studies.
Prerequisite: ACC 201.

ACC 295B  Work Experience I  3 (0,0,0,15)
Cooperative Education course designed to provide the student with on-the-job supervised educationally directed work experience with the accounting program. Student must work a minimum average of 15 hours per week for a total of 225 hours to earn practicum work experience credit. Grade will be given upon verification of employment.

Architectural Design Technology

ADT 100B  Introduction to Drafting Theory  3 (2,2,0,0)
An introduction to manual drafting theory as utilized in fields of architecture, interior design and graphic arts. Geometric construction, orthographic projection, elevations and isometric drawings are included. Open lab will be required.

ADT 103B  Urban Planning  3 (3,0,0,0)
Introduction to the forces shaping urban development, to include: history and determinants of influence, nature of urban form, comprehensive planning and implementation, zoning, general terms relating to development, State statutes, and local land use controls.
Prerequisite: ENG 100 or ENG 101 or ENG 107 or ENG 113.

ADT 107B  Architectural Residential Codes  2 (2,0,0,0)
The main emphasis of this course will be placed on the Residential Building Code. Students will also study portions of the Residential Electrical, Mechanical, Plumbing and Energy Conservation Codes.

ADT 114B  History of the Built Environment  3 (3,0,0,0)
This course will discuss the history of architecture and city design in the western and the non-western civilization. The time periods to be covered will be from classical Greek, Hellenistic and Roman, through the Romanesque period, including the events and architecture of non-western civilization happening in the same time frame. The influences these architecture and design philosophies have had on the shaping of civilization will also be discussed.

ADT 201B  Introduction to Building Information Modeling  3 (2,2,0,0)
This course introduces students to building information modeling by providing them with the essential tools and concepts for using Autodesk Revit. Students will develop a project from conceptual design to construction documents in a hands-on, scenario-based learning environment.

ADT 202B  Intermediate Building Information Modeling  3 (2,2,0,0)
This course covers a wide range of intermediate level topics in Autodesk Revit, continuing to build on the concepts introduced in the Introduction to Revit course.
Prerequisite: ADT 201B.
ADT 205B  Architectural Environmental Control Systems  3 (3,0,0,0)
This course will help students comprehend the principles of design relating to the creation of habitats that efficiently meet the needs of the intended occupant. Content will include general systems terminology and principles and green building construction.
Prerequisites: ADT 107B and GEOG 103.

ADT 210B  Residential Structural Technology  3 (2,2,0,0)
This course will help students to apply basic structural principles to problems encountered in the design and construction of residential and light commercial structures not exceeding two stories in height.
Prerequisite: EGG 131 or PHYS 151.

ADT 280B  Architectural Residential Design  3 (2,2,0,0)
Emphasis will be placed on the conceptual process of designing a residential project. Students will present their final project to a jury of professionals.
Prerequisites: ADT 100B and ADT 107B and CONS 120B and AAD 182.

ADT 282B  Architectural Residential Design II  3 (2,2,0,0)
A continuation of ADT 280B. Students will develop comprehensive design solutions to challenging residential design briefs.
Prerequisite: ADT 280B.

Air Force ROTC

AES 110  The Foundations of the United States Air Force I  1 (1,0,0,0)
A survey course designed to introduce AFROTC cadets and prospective Air Force officers to the Air Force culture. Course describes the heritage and structure of the United States Air Force and the opportunities available to the Air Force corps.

AES 111  AFROTC Leadership Lab I-A  2 (0,4,0,0)
A progression of experiences designed to develop leadership ability and awareness of the Air Force lifestyle with emphasis on: Air Force customs and courtesies; drill and ceremonies, physical fitness, the Air Force officer’s environment and culture and opportunities available to commissioned officers. Graded Pass/Fail.
Corequisite: AES 110 or equivalent.

AES 120  The Foundations of the United States Air Force II  1 (1,0,0,0)
Survey course designed to introduce AFROTC cadets to the leadership aspects of being an Air Force officer and the environment in which the Air Force functions. Course emphasizes the Air Force’s core values and other unique characteristics of serving in the United States Air Force.
Prerequisite: AES 110 or equivalent.

AES 121  AFROTC Leadership Lab I-B  2 (0,4,0,0)
A progression of experiences designed to develop leadership ability and awareness of the Air Force lifestyle with emphasis on: Air Force customs and courtesies; drill and ceremonies, physical fitness, the Air Force officer’s environment and culture and opportunities available to commissioned officers. Graded Pass/Fail.
Corequisite: AES 120 or equivalent.

AES 230  The Evolution of USAF Air and Space Power I  1 (1,0,0,0)
Survey course designed to trace the development of the U.S. Air Force air and space power through a historical prism. Begins with the study of early flight and concludes with the Korean conflict. Special emphasis is placed on the evolving nature of Air Force capabilities, functions and doctrine.

AES 231  AFROTC Leadership Lab II-A  2 (0,4,0,0)
An in-depth progression of experiences developing leadership ability and awareness of the Air Force lifestyle. Focus is on continued military training related to uniform wear, military customs and courtesies, and military ceremonies. Graded Pass/Fail.
Corequisite: AES 230 or equivalent.

AES 240  The Evolution of USAF Air and Space Power II  1 (1,0,0,0)
Survey course to trace the development of U.S. Air Force air and space power through a historical prism. The course begins with the study of the Vietnam War and concludes with the second war against Iraq. Emphasis is placed on the evolving nature of Air Force capabilities, functions and doctrine.
Prerequisite: AES 230 or equivalent.

AES 241  AFROTC Leadership Lab II-B  2 (0,4,0,0)
An in-depth progression of experiences developing leadership ability and awareness of the Air Force lifestyle. Focus is on continued military training related to uniform wear, military customs and courtesies, and military ceremonies. AES 241 is required for all cadets applying to attend Field Training. Graded Pass/Fail.
Corequisite: AES 240 or equivalent.
Applied Industrial Technology

AIT 205B  Industry Customer Service  1 (1,0,0,0)
This course introduces a methodical approach to problem resolution to industry professionals and is designed to contain, qualify, and correct various problems. Students will learn to focus on their communication skills prior to using technical expertise. Graded Pass/Fail.

Academic and Life Success

ALS 101  College Success  3 (3,0,0,0)
Learn strategies for mastering academic and life success. Course topics include change, goal setting, money, time/priority management; test preparation, note-taking, memory techniques; relationships, communication, listening, wellness, diversity and personal responsibility.

American Sign Language

AM 145  American Sign Language I  4 (4,0,0,0)
Designed mainly to introduce ASL and to focus on the development of basic conversational skills, emphasizing receptive skills.

AM 146  American Sign Language II  4 (4,0,0,0)
The course continues to stress the development of basic conversational skills with emphasis on expanding vocabulary and expressive skills.
Prerequisite: AM 145 or instructor approval.

AM 147  American Sign Language III  4 (4,0,0,0)
This course promotes the shifting from comprehension to production of ASL, to bring one’s current ASL fluency to a point of self-generated ASL.
Prerequisite: AM 146 or instructor approval.

AM 148  American Sign Language IV  4 (4,0,0,0)
This course encourages the student to expand his or her command of discourse in ASL on various everyday topics.
Prerequisite: AM 147 or instructor approval.

AM 149  American Sign Language V  4 (4,0,0,0)
A course intended to encourage majors in Deaf Studies to further develop their conversational ASL abilities, particularly in the area of self expression.
Prerequisite: AM 148 or instructor approval.

AM 151  Fingerspelling I  1 (1,0,0,0)
This course is designed to develop basic skills in receptive and expressive fingerspelling.
Prerequisite: Instructor approval or Corequisite: AM 147.

AM 152  Fingerspelling II  1 (1,0,0,0)
This course is designed to improve receptive and expressive fingerspelling skills to intermediate/advanced levels.
Prerequisite: AM 151 or instructor approval.

AM 156  A Survey of Deafness  1 (1,0,0,0)
This survey course provides students an overview of deafness including such topics as: career options, deaf culture, language, communication modes, adaptive equipment and causes of deafness.

AM 205  Introduction to Interpreting  4 (4,0,0,0)
An introduction and overview of the profession of sign language interpretation, including standards of practice, Code of Ethics for Interpreters, professionalism, business practices and assessment skills.
Prerequisites: AM 145-149; and AM 151 and AM 152 or Instructor approval.

AM 206  Consecutive Interpreting  4 (2,4,0,0)
This skills development course focuses on the task of interpretation and transliteration skills between American Sign Language, English, and other communication modes used by deaf people using consecutive interpreting strategies.
Prerequisites: AM 145-149; and AM 151 and AM 152 or Instructor approval.

AM 207  Simultaneous Interpreting  4 (2,4,0,0)
This skills development course focuses on the task of interpretation and transliteration between American Sign Language, English and other communication modes used by deaf people using simultaneous interpreting strategies.
Prerequisite: AM 206.

AM 208  Observation/Practicum in Interpreting  3 (1,0,0,8)
This course provides students opportunities to shadow, observe and interact with professional interpreters in a supervised observation/practicum setting. Class discussions will be held in seminar format.
Prerequisite: AM 207.

AM 209  Advanced Interpreting  4 (2,4,0,0)
This course continues the development of skills in interpretation and transliteration in order to prepare students for employment. Emphasis is placed on practical application of theory and process of interpreting in class and lab situations.
Prerequisite: AM 207.
AM 210 Specialized Interpreting 3 (3,0,0,0)
This course introduces students to various areas of interpreter specialization. Each area of specialization will include general information, specialized vocabulary, interpreting techniques, and text to analyze and interpret.
Prerequisite: AM 207 with a grade of C or better; or Instructor approval.

AM 211 Internship in Interpreting 3 (1,0,0,8)
This course provides internship experiences to students in the final semester of the interpreter preparation program. Site visits will be made by the instructor.
Prerequisite: AM 210.

AM 253 Deaf Culture 3 (3,0,0,0)
This course is designed to introduce students to the American Deaf Culture and definitions of culturally linked terms and philosophies.
Prerequisite: Instructor approval or Corequisite: AM 147.

AM 254 Deaf History 3 (3,0,0,0)
This course is designed to introduce students to the history of deaf people and the sociological, psychological, educational, and political forces which have shaped the field of deafness.
Prerequisite: Instructor approval or Corequisite: AM 148.

AM 255 Structure of American Sign Language 3 (3,0,0,0)
This course acquaints students with the information and research concerning phonetics, morphology, syntax, semantics, neurolinguistics, psycholinguistics, and sociolinguistics of American Sign Language. This class will be conducted in American Sign Language without voice.
Prerequisite: Instructor approval or Corequisite: AM 148.

AM 257 ASL/English Translation 3 (3,0,0,0)
This course is an introduction to the process of working between two languages. Students will analyze textual material and translate from the source into the target language with the goal of maintaining semantic accuracy.
Prerequisite: AM 255 or Instructor approval.

Anthropology

ANTH 101 Introduction to Cultural Anthropology 3 (3,0,0,0)
An in-depth analysis of culture revealed by world ethnography.

ANTH 102 Introduction to Physical Anthropology 3 (3,0,0,0)
Genetics, heredity, diversity, and the origins and evolution of humans. Examines basic evolutionary biology, including natural selection, and the relevant history, science, and methods in this field.

ANTH 104 Great Discoveries in Archaeology 3 (3,0,0,0)
Examination of famous archaeological discoveries and contemporary archaeological research. Highlights archaeology’s contributions to modern views of the past.

ANTH 105 Introduction to World Archaeology 3 (3,0,0,0)
Development of human society and technology from the earliest traces of culturally patterned behavior to the emergence of civilization in the Old and New Worlds.

ANTH 106 Introduction to Anthropological Linguistics 3 (3,0,0,0)
Introduction to the anthropological study of language in the context of culture. This course also examines the scientific study of phonology, morphology, syntax, and semantics.

ANTH 112 Social Anthropology 3 (3,0,0,0)
An examination of the application of anthropological concepts to contemporary society. The results of studies of non-western, sociocultural systems used in considering alternate solutions to the problems confronting Western man today will be covered.

ANTH 114 Introduction to World Archaeology 3 (3,0,0,0)
Introduction to the study of the past through the examination of material remains. Emphasis on the analysis of artifacts from various cultures.

ANTH 201 Peoples and Cultures of the World 3 (3,0,0,0)
A study of human cultural diversity and institutions among various people and societies around the world.

ANTH 202 Introduction to Archaeology 3 (3,0,0,0)
An examination of the research goals, theoretical foundations, and methods of anthropological archaeology. Examples are drawn from archaeological sites worldwide, with a Great Basin emphasis.

ANTH 203 Special Topics in Anthropology 3 (3,0,0,0)
Intensive survey of major areas of Anthropology. Topics will vary. May be repeated up to six (6) credits.
Prerequisite: ANTH 101.

ANTH 204 Art in Cross-Cultural Perspective 3 (3,0,0,0)
An examination of cultural influences on art production, process, and meaning, as viewed across diverse modern, historic, and prehistoric contexts. Philosophies of art and the relationships between art and various aspects of culture are explored.
ANTH 205  Ethnic Groups in Contemporary Societies 3 (3,0,0,0)
A survey of racial and ethnic intergroup relations in the United States and other societies. Emphasis is on cultural, social, and institutional factors that lead to group conflict and/or cultural pluralism.
Prerequisite: ANTH 101 or SOC 101. (Same as SOC 205.)

ANTH 206  African Culture Through Oral History and Storytelling 3 (3,0,0,0)
An exploration of the different life-ways in various societies of Africa and African Diaspora through oral traditions and folklore.

ANTH 207  Sport and Culture 3 (3,0,0,0)
This course looks at the relationship of sport and culture in past and contemporary world cultures. The course uses western and non-western sports to illustrate the nature of this relationship.

ANTH 209  Gender in Cross-Cultural Perspective 3 (3,0,0,0)
An examination of human gender and sexuality through an investigation of cross-cultural similarities and differences.

ANTH 211  Introduction to the Archaeology of North America 3 (3,0,0,0)
Examines the prehistory of North America from the peopling of the continent to European contact. Particular emphasis is on the prehistory of the Great Basin.

ANTH 212  Introduction to North American Indians 3 (3,0,0,0)
Survey of traditional life and modern conditions of American Indians with emphasis on the western United States.

ANTH 214  Introduction to Mesoamerican Prehistory and Archaeology 3 (3,0,0,0)
The study of prehistoric and protohistoric cultures of Mexico and Central America, including the Aztecs and Mayans.

ANTH 215  Introduction to Faith, Witchcraft and Magic 3 (3,0,0,0)
Introduces students to the anthropological study of religion as a human institution. Examines the history, methods, and current status of the field.

ANTH 216  Cultures Through Film 3 (3,0,0,0)
An exploration of societies, cultures and cultural anthropology through film. Ethnographic and documentary films are shown.

ANTH 217  Drums, Culture, and New World Rhythmatism 3 (3,0,0,0)
Explore relationships between culture and the arts while learning to play hand drums from around the world. Experiential learning for body and mind.

ANTH 225  Archaeological Field Methods Survey 3 (3,0,0,0)
Introduction to archaeological field research that uses current survey and recording methods to identify archaeological sites.

ANTH 228  Health, Healing and Culture 3 (3,0,0,0)
Health and healing from an anthropological perspective. Cross-cultural investigation of social, ecological, and evolutionary aspects of human health. Biocultural approaches to contemporary health issues.

ANTH 291  Practicum: Group Discussion Leader 2 (1,0,0,4)
This course is designed to introduce the student to skills and facilities of instruction in the college classroom.
Prerequisite: ANTH 101.

ANTH 299  Capstone Course in Anthropology 2 (2,0,0,0)
Provides theoretical and practical overview of the field of anthropology in relationship to the Anthropology AA degree and emphasis.
Prerequisite: Completion of Anthropology AA degree emphasis course of study.

Arabic

ARA 111  First Year Arabic I 4 (4,0,0,0)
This course is intended to teach the alphabet and sound system of Modern Arabic. It will introduce basic conversation in Egyptian Arabic as well as the cultural norms related to these conversations. It will include basic Arabic vocabulary and an introduction to Arabic grammar.

ARA 112  First Year Arabic II 4 (4,0,0,0)
This course is intended for non-native Arabic speakers who wish to study modern Arabic, including listening, speaking, reading, and writing. The course focuses primarily on Modern Standard Arabic but also includes practice with the spoken Arabic of Egypt.
Prerequisite: ARA 111 or Department approval.

ARA 211  Second Year Arabic I 3 (3,0,0,0)
This course is a continuation of ARA 112, and is intended for non-native Arabic speakers who wish to study modern Arabic, including listening, speaking, reading, and writing. This course focuses primarily on Modern Standard Arabic but also includes practice with the spoken Arabic of Egypt.
Prerequisite: ARA 112 or Department approval.
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<td>Second Year Arabic II</td>
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<td>This course is a continuation of ARA 211, Second Year Arabic I, and is intended for non-native Arabic speakers who wish to study modern Arabic, including listening, speaking, reading, and writing. This course focuses primarily on Modern Standard Arabic but also includes practice with the spoken Arabic of Egypt. Prerequisite: ARA 211 or Department approval.</td>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
<td>(0,6,0,0)</td>
</tr>
<tr>
<td></td>
<td>An introductory studio course emphasis on a disciplined foundation in drawing concepts based on visual observations.</td>
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<tr>
<td>ART 102</td>
<td>Drawing II</td>
<td>3</td>
<td>(0,6,0,0)</td>
</tr>
<tr>
<td></td>
<td>Further development of the fundamental drawing skills acquired in ART 101. Emphasis on extending visual concepts, exploring alternate materials and developing compositional devices. Study of various applications of life drawing included. Prerequisite: ART 101.</td>
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</tr>
<tr>
<td>ART 105</td>
<td>Color Theory</td>
<td>3</td>
<td>(0,6,0,0)</td>
</tr>
<tr>
<td></td>
<td>An introduction to color interaction, optical phenomena and their creative application.</td>
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</tr>
<tr>
<td>ART 106</td>
<td>Jewelry I</td>
<td>3</td>
<td>(0,6,0,0)</td>
</tr>
<tr>
<td></td>
<td>Introduction to basic fabricating processes, i.e., sawing and soldering of both common and fine metals. From simple jewelry pieces to setting stones or construction of simple non-jewelry pieces. Includes historical evolution of metal work and student research. Emphasis on knowledge and development of manual skills and personal aesthetic sense.</td>
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<tr>
<td>ART 107</td>
<td>Design Fundamentals I (2-D)</td>
<td>3</td>
<td>(0,6,0,0)</td>
</tr>
<tr>
<td></td>
<td>A course in art fundamentals designed to develop a visual language. Emphasis on the application of the elements and principles of pictorial structure, point, line, shape, plane, space and color.</td>
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</tr>
<tr>
<td>ART 108</td>
<td>Design Fundamentals II (3-D)</td>
<td>3</td>
<td>(0,6,0,0)</td>
</tr>
<tr>
<td></td>
<td>An introduction to the principles and elements of sculptural process in a variety of media which may include wood, plaster, clay and metal.</td>
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<tr>
<td>ART 124</td>
<td>Introduction to Printmaking</td>
<td>3</td>
<td>(0,6,0,0)</td>
</tr>
<tr>
<td></td>
<td>Introduction to printmaking with emphasis on its creative possibilities. One or several of the basic techniques developed: intaglio, lithography, serigraphy, monotype and relief printmaking. Prerequisite: ART 101.</td>
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<tr>
<td>ART 127</td>
<td>Watercolor I</td>
<td>3</td>
<td>(0,6,0,0)</td>
</tr>
<tr>
<td></td>
<td>An introduction to the opaque and transparent watercolor media and the development of techniques and skills in the manipulation of the medium.</td>
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<tr>
<td>ART 135</td>
<td>Photography I</td>
<td>3</td>
<td>(0,6,0,0)</td>
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<tr>
<td></td>
<td>A beginning course which emphasizes a fine arts and aesthetic approach to the medium. Assignments explore ideas in contemporary art while developing technical and darkroom skills.</td>
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<tr>
<td>ART 141</td>
<td>Introduction to Digital Photography</td>
<td>3</td>
<td>(0,6,0,0)</td>
</tr>
<tr>
<td></td>
<td>A beginning course in digital photography that emphasizes a fine arts approach. Technical proficiency and individual exploration are stressed.</td>
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<tr>
<td>ART 142</td>
<td>Introduction to Digital Photography II</td>
<td>3</td>
<td>(0,6,0,0)</td>
</tr>
<tr>
<td></td>
<td>Intermediate study of operations and techniques in digital photography such as lighting, exposure and print enhancement. Emphasis placed on development of personal body of work. Prerequisite: ART 141 or Instructor approval.</td>
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<tr>
<td>ART 160</td>
<td>Art Appreciation</td>
<td>3</td>
<td>(3,0,0,0)</td>
</tr>
<tr>
<td></td>
<td>An introduction to the visual arts. Emphasis will be placed upon the acquisition of the tools and the skills necessary to understand and interpret works of art. Traditional art forms, such as painting and sculpture will be considered as well as newer genres such as installation and performance.</td>
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<tr>
<td>ART 160H</td>
<td>Art Appreciation – Honors</td>
<td>3</td>
<td>(3,0,0,0)</td>
</tr>
<tr>
<td></td>
<td>A writing-intensive introduction to the visual arts. Emphasis will be placed upon the acquisition of the tools and the skills necessary to understand and interpret works of art. Traditional art forms such as painting and sculpture will be considered as well as newer genres such as installation and performance. Courses with “H” suffixes are designated Honors-level courses and can be used to fulfill equivalent general education requirements. Prerequisite: Admission to the Honors program.</td>
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<tr>
<td>ART 201</td>
<td>Life Drawing I</td>
<td>3</td>
<td>(0,6,0,0)</td>
</tr>
<tr>
<td></td>
<td>An introduction to the depiction of the human form with studies in anatomy and pictorial organization. Emphasis on technical skills based on observational studies. Prerequisite: ART 102.</td>
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<td></td>
</tr>
<tr>
<td>ART 202</td>
<td>Life Drawing II</td>
<td>3</td>
<td>(0,6,0,0)</td>
</tr>
<tr>
<td></td>
<td>A continuation of studies of the human form. Emphasis on conceptual development using a variety of materials. Prerequisite: ART 201.</td>
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<td></td>
</tr>
</tbody>
</table>
ART 206  Jewelry II  3 (0,6,0,0)
Introduction to the basic techniques of lost wax metal casting (centrifuge and vacuum). Includes information about advanced fabricating techniques with emphasis on personal expression and individual artistic growth.
Prerequisite: ART 106.

ART 211  Ceramics I  3 (0,6,0,0)
Basic hand-building techniques are explored as means to produce vessel and sculptural forms along with glaze decoration. Cost of clay is in addition to course fee.

ART 212  Ceramics II  3 (0,6,0,0)
Introduction to basic wheel-throwing techniques to produce vessel forms, surface decorations and glaze application. Cost of clay is in addition to course fee.

ART 216  Sculpture I  3 (0,6,0,0)
An introduction to techniques and concepts in contemporary sculpture which will include casting, carving and constructing.

ART 217  Sculpture II  3 (0,6,0,0)
Intermediate study of techniques and concepts in contemporary sculpture.
Prerequisite: ART 216 or Instructor approval.

ART 219  Beginning Sculpture Foundry  3 (0,6,0,0)
Beginning techniques and concepts of traditional and contemporary cast metal including mold making, casting, tooling and patination.
Prerequisite: ART 216 or Instructor approval.

ART 223  Beginning Printmaking: Serigraphy  3 (0,6,0,0)
Introduction to the basic techniques of screenprinting with an emphasis on its creative potential.
Prerequisite: ART 101 or ART 107.

ART 225  Intermediate Printmaking  3 (0,6,0,0)
A continuation of ART 124 with emphasis on color theory, print history and the exploration of personal imagery. Studio projects will be based on individual interests with faculty advisement. Both group and individual critiques will be employed.
Prerequisite: ART 124.

ART 226  New Technology Printmaking  3 (0,6,0,0)
Introduction to photo, computer and hand-drawn imagery within the traditional printmaking format. Techniques covered will include: intaglio, lithography, and monotype.
Prerequisites: ART 101 and ART 124.

ART 231  Painting I  3 (0,6,0,0)
Introduction to the concepts of painting, including color, form, technical skills and knowledge of materials. Emphasis on the development of aesthetic awareness. Projects will be problem-solving assignments.
Prerequisite: ART 101.

ART 232  Painting II  3 (0,6,0,0)
A continuation of ART 231 with an emphasis on conceptual development and individual interests.
Prerequisites: ART 101 and ART 231.

ART 235  Photography II  3 (0,6,0,0)
Intermediate level course which explores techniques such as Zone System, night photography, large format and alternate darkroom processes. Emphasis on development of personal body of work and exploration of contemporary photography. Includes field trips.
Prerequisite: ART 135.

ART 243  Digital Imaging I  3 (0,6,0,0)
An introduction to the concepts and practices of computer imaging and the use of related media with emphasis on creative applications of digital technology.
Prerequisite: ART 101 or ART 107.

ART 244  Digital Imaging II  3 (0,6,0,0)
Advanced application of the concepts and practice of computer imaging and the use of related media with emphasis on creative applications of digital technology.
Prerequisite: ART 243.

ART 245  Digital Media I  3 (0,6,0,0)
Exploration of various digital media in the creation of art.

ART 253  Cinema II/The Sound Era  3 (3,0,0,0)
This introductory course identifies creative use of film-making techniques and surveys the major genres of film since the 1930s. Main genres explored include the Western, Crime, Horror, Musical, Science Fiction, War, Comedy, Action-Adventure and Foreign. In-class films, class critiques, field trip.

ART 260  Survey of Art History I  3 (3,0,0,0)
A survey of Western art and architecture from the prehistoric era to the beginning of the Renaissance.

ART 261  Survey of Art History II  3 (3,0,0,0)
A survey of painting, sculpture and architecture in the West from the Renaissance through the modern era.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Co/Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 262</td>
<td>Survey of Asian Art</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>An introduction to the art and architecture of Asia including India, Tibet, China, Korea, Japan, and Southeast Asia, through an exploration of the major religious and secular artistic traditions from Neolithic to Modern times. Slide lectures, video/film, discussions and museum field trip.</td>
</tr>
<tr>
<td>ART 263</td>
<td>Survey of African, Oceanic, and Native American Art</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>An introduction to the arts and architecture of Tribal Africa, Oceania and Aboriginal Cultures, and Native America. Slide lectures and class discussion. Field trips.</td>
</tr>
<tr>
<td>ART 264</td>
<td>Survey of American Art</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>Survey of the art and architecture of the United States from the colonial period through the late twentieth century. Slide lectures, discussions and videos.</td>
</tr>
<tr>
<td>ART 265</td>
<td>Introduction to Contemporary Art</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>Survey of the major art forms and movements since World War II and of the critical and cultural milieu in which they developed.</td>
</tr>
<tr>
<td>ART 267</td>
<td>Pre-Columbian Art and Architecture</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>Studies the art and architecture of the numerous traditions and cultures of South and Mesoamerica and the examination of the effects of European contact and later developments in the ancient Southwest.</td>
</tr>
<tr>
<td>ART 270</td>
<td>Women in Art</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>This course will explore the contributions women have made to Western art from the Middle Ages through the present. Among the topics we shall consider are: works of art produced by women artists and the historical circumstances in which they were produced; how women have been represented by Western artists, both male and female; and the role women have played in Western culture as art patrons and art collectors.</td>
</tr>
<tr>
<td>ART 275</td>
<td>Survey of History of Photography</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>Introduction to the artistic development of photography from early inventions as a technique to its use as a fine art. Considered also is relationship of photography to Modern Art movements and mass media. Slide lectures, discussion and field trips.</td>
</tr>
<tr>
<td>ART 278</td>
<td>Art and Photography in 20th Century Mexico</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>This course examines the contributions made by Mexican artists and photographers to twentieth century visual culture. The focus is on the “Mexican Renaissance” of the 1920s and 1930s; in particular, the revival of the fresco tradition and the effect it had on artistic production. Other topics include; the print tradition, easel painting, and the development of Mexican photography. (Same as PHO 278.)</td>
</tr>
<tr>
<td>ART 298</td>
<td>Portfolio Emphasis</td>
<td>2</td>
<td>(1,2.5,0,0)</td>
<td>Participants will develop portfolios, documents and verbal skills necessary for the college transfer or job acquisition in the fine arts field. Class will cover development of professional portfolio, résumé, artists’ statement and marketing strategies in art. Twelve (12) hours of ART credits strongly recommended for entry into this course.</td>
</tr>
<tr>
<td>Astronomy</td>
<td>AST 101 General Astronomy</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>An elementary course which considers the solar system, stellar systems and stellar and galactic evolution according to currently accepted concepts. This course designed for non-science majors with little or no background in science or mathematics.</td>
</tr>
<tr>
<td>Astronomy</td>
<td>AST 103 Introductory Astronomy: The Solar System</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>A survey course at the beginning level which discusses the nearby objects of our solar system, the formation and evolution of planetary bodies and the exploration of space. A minimum of mathematics is required, in the tradition of the amateur astronomer. Recommended for non-science majors.</td>
</tr>
<tr>
<td>Astronomy</td>
<td>AST 104 Introductory Astronomy: Stars and Galaxies</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>A survey course at the beginning level which discusses stellar systems and galaxies. Topics include stellar evolution, formation of galaxies and cosmology. A minimum of mathematics is required, in the tradition of the amateur astronomer. Recommended for non-science majors.</td>
</tr>
<tr>
<td>Astronomy</td>
<td>AST 105 Introductory Astronomy Laboratory</td>
<td>1</td>
<td>(0,3,0,0)</td>
<td>Course provides practical experience in observational astronomy including telescopic observations and laboratory exercises. AST 105 fulfills the lab science elective for any degree program. Should be taken with or after taking AST 101 or AST 103 or AST 104. Prerequisite: MATH 095 or above.</td>
</tr>
<tr>
<td>Automotive Technology</td>
<td>AUTO 105B Automotive Maintenance I</td>
<td>2</td>
<td>(1,3,0,0)</td>
<td>Students will learn basic operation of the major automotive systems, safety procedures, tool and equipment usage and using electronic service information while performing lubrication, tire and basic maintenance service procedures. Test-out exam is available through the Transportation Technologies program office.</td>
</tr>
</tbody>
</table>
AUTO 115B Automotive Electricity and Electronics I 4 (1,6,0,0)
This course will introduce the operation of AC and DC electrical circuits, wiring diagrams and the use of Digital Multimeters and diagnosis of circuit malfunctions including battery, starting, charging and accessory systems.
Prerequisite: AUTO 105B.

AUTO 117B Advanced Automotive Electronics 4 (1,6,0,0)
Operation, diagnosis and repair of automotive electrical circuits including lighting and convenience accessories, instrument cluster/ gauges, supplemental restraint systems, audio, cruise and anti-theft systems.
Prerequisite: AUTO 115B.

AUTO 136B Engine Repair 5 (2,6,0,0)
Students will learn to identify engine components and their operation, accurately use precision measuring tools, perform disassembly/assembly and maintenance procedures of engines, cooling systems and lubrication systems. Diagnosis of engine condition, leaks, and abnormal noises are emphasized.
Prerequisite: AUTO 105B.

AUTO 145B Automotive Brakes 4 (1,6,0,0)
Facilitate the theory, diagnosis, and service of drum, disc, and anti-lock braking systems, brake component machining, hydraulic component reconditioning, friction and hardware replacement.
Prerequisite: AUTO 115B.

AUTO 155B Steering and Suspension 4 (1,6,0,0)
Diagnose and service of steering and suspension components, tire service, balancing, and advanced alignment procedures. Identify components and perform service procedures for electronic steering systems.
Prerequisite: AUTO 105B.

AUTO 165B Automotive Heating and Air Conditioning 4 (1,6,0,0)
Service, operation, diagnosis and repair of automotive heating and air conditioning system components, including automatic temperature control systems. All refrigerant types are covered. Emphasis is placed on service and troubleshooting.
Prerequisite: AUTO 115B.

AUTO 185B Introduction to Alternative Fueled Vehicles 3 (3,0,0,0)
This course will familiarize students with the alternative fuels movement and the laws, regulations and programs affecting alternative fuels. The design and operation of alternative gaseous, liquid, bio-fuels, hydrogen, hybrid, electric vehicles and emerging technologies will be covered.
Prerequisite: AUTO 117B or Instructor approval.

AUTO 205B Manual Drivetrain and Axles 4 (1,6,0,0)
Operation, diagnosis, maintenance, repair of manual transmissions, clutch assemblies, differentials, drivelines, axles, and manual transaxles.
Prerequisite: AUTO 105B.

AUTO 216B Automatic Transmissions 5 (2,6,0,0)
Operation, diagnosis, maintenance, and repair of automatic transmissions including rear wheel drive, front wheel drive, and electronically controlled transmissions and transaxles.
Prerequisite: AUTO 117B.

AUTO 225B Engine Performance I/ Fuel and Ignition 4 (1,6,0,0)
Theory, function, service and analysis of engine related subsystems including ignition, fuel, starting, and charging systems. Emphasis is placed on diagnosis and operation of electronic engine control management systems.
Prerequisites: AUTO 117B and AUTO 136B.

AUTO 227B Engine Performance II/ Emission Control 4 (1,6,0,0)
Study of automotive emission control systems including an overview of State of Nevada license requirements. Utilization of current gas analyzers, diagnosis of emission test failures.
Prerequisite: AUTO 225B.

AUTO 235B Engine Performance III/ Diagnostics 4 (1,6,0,0)
Study of advanced level diagnostic test procedures and the equipment used to analyze OBD-II emission and driveability concerns. Use of Digital Storage Oscilloscopes, current ramping, scan tool analysis and 4 and 5 gas analyzers is mastered.
Prerequisite: AUTO 227B.

AUTO 240B Nevada 1G Emission Inspection Preparation 2 (2,0,0,0)
This course meets the initial State of Nevada training requirements for those individuals wishing to become a Nevada 1G emission inspector.

AUTO 245B Power Train Removal and Replacement 4 (1,6,0,0)
Students will complete removal and installation of major automotive components including the engine assembly, transmission/transaxle assembly, differential and transfer case.
Prerequisite: AUTO 136B.
**AUTO 285B**  Hybrid Vehicle Service Techniques  4 (1,6,0,0)

This course will cover safety procedures, design, operation, diagnosis and repair of all classification of hybrid electric vehicles. Each student must possess legal Class “O” HV gloves and liners to attend this class.

Prerequisite: AUTO 185B.

**AUTO 291B**  Work Experience I  1-4 (0,0,0,5-20)

Cooperative education courses, designed to provide the student with on-the-job supervised and educationally directed work experience. Each course except AUTO 294B will have a

Prerequisite of successful completion of the preceding Work Experience course. One credit may be earned for each 5 hours worked per week during the semester up to a maximum of 4 credits per semester, not to exceed 16 credits total.

Prerequisite: Instructor approval.

**Aviation**

**AV 100B**  Aviation Orientation  3 (3,0,0,0)

This course will introduce students to the history and development of flight, basic aircraft principles, the aviation industry, and career opportunities within the industry.

**AV 105B**  Airport Operations  3 (3,0,0,0)

An introduction to the principles of airport operations. Topics include management functions, airport classification, organizational structures, flight operations, maintenance operations and their relationship with commercial airlines, corporate flight operations, air cargo and general aviation. Pertinent Federal Aviation Regulations governing airport operations will be emphasized.

**AV 107B**  Airline Flight Operations  3 (3,0,0,0)

An introduction to the operational aspects of airline flight operations. Topics include management functions, organizational structure and personnel requirements with regard to airlines, commuter, air-taxi and instructional flight operations. The complex area of operational techniques utilized by airlines, and business strategies airlines face today will be discussed. Pertinent Federal Aviation Regulations governing airline operations will be emphasized.

**AV 110B**  Private Pilot Ground School  4 (4,0,0,0)

A study of aviation fundamentals including principles of flight, aircraft and engine operations, weather, navigation and radio communication as required by FAA (Federal Aviation Administration) regulations. This course will prepare the student to take the FAA Private Pilot Airplane Certificate Knowledge exam.

**AV 111B**  Private Pilot Certification Lab  3 (0,6,0,0)

Students will begin flight training with an FAA (Federal Aviation Administration) Certified Flight Instructor. Training will include all skills necessary to pass the FAA Private Pilot Airplane Certificate Practical Exam. This course is designed for AAS Aviation Technology degree seeking majors.

Prerequisite: Instructor approval or Corequisite: AV 110.

**AV 112B**  Human Factors and Safety  3 (3,0,0,0)

This course will study the effects of human factors on pilot performance and safety including education and training, the aviation environment and pilot mental and physical condition.

**AV 114B**  Advanced Navigation and Flight Planning  3 (2,2,0,0)

Flight planning and navigation concepts are mastered through application of Federal Aviation Regulations pertaining to airline flight systems operations. Various components of flight plans, navigation systems, dispatch releases, aeronautical charts, weather conditions, operating limitations, and performance factors for aircraft will be implemented.

Prerequisite: AV 110B.

**AV 115B**  Aviation Meteorology  3 (3,0,0,0)

This course deals with atmospheric conditions and the effect on aeronautical applications. Weather development patterns and observations from the pilot’s point of view will be emphasized.

**AV 210B**  Instrument Ground School  4 (4,0,0,0)

Aspects of instruction will include the aeronautical knowledge areas as determined by the Federal Aviation Administration for the Instrument Rating – Airplane. This course will prepare eligible students to take the FAA Instrument Rating – Airplane Knowledge Exam. Course may be taken as an IFR refresher or to enhance knowledge of IFR flight operations.

Prerequisite: AV 110B.

**AV 212B**  Instrument Certification Lab  3 (0,6,0,0)

Students will begin flight training with an FAA Certified Flight Instructor - Instrument. Training will include all skills necessary to meet eligibility requirements for the FAA Instrument Airplane Practical Exam. This course is designed for AAS Aviation Technology degree seeking majors.

Prerequisite: AV 111B.

**AV 214B**  Aerodynamics  3 (3,0,0,0)

Study of basic aerodynamic theory. Covers wing design and theory, lift analysis and drag criteria, and basic performance criteria calculations. The effects of low and high speed flight configurations are examined.

Prerequisite: AV 110B.
AV 215B  Crew Resource Management  3 (3,0,0,0)
This course will cover the common concepts and application of Crew Resource Management (CRM) as it applies to professional pilots, general aviation pilots, cabin crews, maintenance personnel, aircraft dispatchers, and air traffic controllers will be studied, emphasizing the human interface and accompanying interpersonal activities that involve decisions required to operate a flight safely. Topics such as risk assessment, management, error prevention and mitigation, and automation issues will be studied, using case studies, accident analysis and practical application exercises.

AV 220B  Air Transportation  3 (3,0,0,0)
This class surveys the regulations of the aviation industry at the state, federal, and international levels. Historical events and how they impact current and past legislation will be studied. Students will also investigate the impact of legislation and treaties on the aviation industry, such as deregulation, international alliances and agreements.

AV 240B  Advanced Aircraft Systems  3 (3,0,0,0)
Course covers the different types of commercial aircraft, and their various operational, instrumentation, electrical, electronic, fuel, and mechanical systems. The course will also cover principles of operations, and commercial aircraft structure and avionics. Mathematical calculations for determining large aircraft weight and balance will also be presented.
Prerequisite: AV 110B.

AV 250B  Commercial Pilot Ground School  4 (4,0,0,0)
This course prepares students to take the FAA Commercial Pilot Knowledge Exam. Aspects of instruction will include the aeronautical knowledge areas as determined by the Federal Aviation Administration for the Commercial Pilot Certificate.
Prerequisite: AV 110B.

AV 251B  Commercial Pilot Certification Lab  3 (0,6,0,0)
Students will begin flight training with an FAA (Federal Aviation Administration) authorized Flight Instructor. Training will include all practical skills necessary to meet eligibility requirements for the FAA Commercial Pilot Certificate. This course is designed for AAS Aviation Technology degree seeking majors.
Prerequisite: AV 212B.

Biology

BIOL 095  Basic Biology  3 (3,0,0,0)
An introduction to the principles of math, chemistry, cell biology, energetics, and molecular genetics designed to prepare students for college freshman biology. The application of study skills to biology courses will also be emphasized. This course is non-transferable.

BIOL 101  Biology for Non-Majors  4 (3,3,0,0)
An introduction to biology with emphasis on human concerns. Topics include aspects of organism structure, function, ecology, and evolution which provide a biological perspective for issues facing modern society. Intended to satisfy the lab science general education requirement.

BIOL 103  Biology Laboratory  1 (0,3,0,0)
Prerequisite: Entry by departmental authorization only.

BIOL 112  Introduction to Animal Behavior  3 (3,0,0,0)
Introduction to invertebrate and vertebrate animal behavior, its description, role, genetic and evolutionary basis, and methods of study. Designed as a general education, non-majors course.

BIOL 113  Life in the Oceans  3 (3,0,0,0)
An introduction to the environment and inhabitants of the sea.

BIOL 116  Natural History  3 (3,0,0,0)
This course explores the ways living organisms survive in nature and demonstrates how each organism illustrates the principles of ecology and evolution.

BIOL 120  Plants and People  3 (3,0,0,0)
An introduction for non-biology majors to the social, cultural, and economic role of useful and harmful plants and plant products in modern society. Consideration is given to the origin, history and human value of selected plants, especially those used for food, medicine and industrial raw materials, or in religious rites.

BIOL 121  Human Nutrition  3 (3,0,0,0)
Description of the nature and role of carbohydrates, lipids, proteins, water, vitamins and minerals in the human body. Energy relationships and various controversies in nutrition are examined, as well as relationships between nutrition, health and disease. (Same as NUTR 121.)

BIOL 122  Desert Plants  3 (2,3,0,0)
Desert plants is an investigation of the desert of the southwest United States. Students will evaluate plant community distributions and characterize common species. Students will explore adaptations to aridity and the nature, origin, and occurrence of arid environments.

BIOL 189  Fundamentals of Life Science  4 (3,3,0,0)
Biology 189 is a comprehensive course which serves to build a cornerstone of biological knowledge for students in health science majors, and fulfills the prerequisite for anatomy and physiology, and microbiology courses. The topics include biochemistry, cell structure and function, cellular metabolism, physiology, genetics, and gene expression. Biology 189 is a 4-credit, lecture and lab course, and includes 3 hours of lecture and 3 hours of lab per week.
Prerequisite: ENG 100 or 101 or 113 with a grade of C- or higher.
BIOL 196  Principles of Modern Biology I 4 (3,3,0,0)
A study of the basic characteristics of living systems including the chemical and physical structure of cells, enzyme mechanics, metabolism, genetics, molecular biology principles and techniques, and evolution. This course is designed for science, biological science and preprofessional majors.
Prerequisite: ENG 100 or 101 or 113 with a grade of C- or better.

BIOL 197  Principles of Modern Biology II 4 (3,3,0,0)
A survey of major groups of organisms presented in an evolutionary context, including natural selection, biodiversity, structure and function, reproduction, physiology, and ecology.
Prerequisite: BIOL 196.

BIOL 202  General Botany 4 (3,3,0,0)
An introduction to the development, anatomy, physiology, diversity and evolutionary relationships of the major plant groups.
Prerequisite: BIOL 196.

BIOL 208  Introduction to Human Genetics 3 (3,0,0,0)
Non-majors, general education course covering hereditary principles applied to human inheritance and their implications for human affairs. Study of selected examples of human traits.
Prerequisite: BIOL 101 or higher.

BIOL 211  Introduction to Field Biology 4 (3,3,0,0)
An introduction to field safety, navigation, species, diagnosis, data collection, survey techniques, and regulations associated with field biology. Outdoor and off-campus field work required.
Prerequisites: ANTH 101 or ANTH 102 or ANTH 202 or BIOL 116 or BIOL 122 or BIOL 189 or BIOL 196 or BIOL 220 or ENV 101 or ENV 220 or GEOG 103 or GEOL 101 or GEOL 105 or Instructor approval.

BIOL 214  Molecular Processes 3 (3,0,0,0)
An introduction to the concepts of DNA replication, transcription, translation, the control of gene expression and DNA recombinant technologies. Will also include comprehensive study of both prokaryotic and eukaryotic genomes, gene expression and molecular techniques for clinical diagnosis and research. Emphasis on current techniques to assess genomes, and gene expression.
Prerequisite: BIOL 196.

BIOL 220  Introduction to Ecological Principles 3 (3,0,0,0)
An introduction to the major principles and underlying processes of organismal, population, community and ecosystem ecology. (Same as ENV 220.)

BIOL 223  Human Anatomy and Physiology I 4 (3,3,0,0)
A detailed study of the anatomy and physiology of human cells and tissues and the integumentary, skeletal, muscular, and nervous systems. Designed for health science majors.
Prerequisite: BIOL 189 with a Grade of C or better.

BIOL 224  Human Anatomy and Physiology II 4 (3,3,0,0)
A detailed study of the anatomy and physiology of the human body. Topics include the circulatory, respiratory, digestive, urinary, endocrine, and reproductive systems. This course is designed for health science majors.
Prerequisite: BIOL 223.

BIOL 251  General Microbiology 4 (3,3,0,0)
Survey of the distribution, morphology and physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification. Topics in microbial genetics, human disease and immunology are also explored. Recommended for all allied health and preprofessional majors.
Prerequisite: BIOL 189 with a Grade of C or better.

BIOL 251H  General Microbiology – Honors 4 (3,3,0,0)
Microbiology is targeted toward specific student interests in microbiology, cell, molecular and integrative microbiology, and those with backgrounds in biology and chemistry. The course provides in-depth coverage of microbial (prokaryotic and eukaryotic cells and viral) structure, function, genetics, diversity, ecology, pathogenesis and immunology, with emphasis on microbial evolution and phylogeny, unique microbial metabolic pathways, molecular mechanisms and human-microbe interactions. Three hours lecture and three hours laboratory. Recommended: BIOL 197 and CHEM 121 and 122.
Prerequisite: BIOL 196 with a Grade of C or better.

BIOL 299  Selected Topics in Biology 1-4 (0,3-12,0,0)
Covers selected topics of interest to students in the biological sciences.
Prerequisite: Instructor approval.

Business Management

BUS 101  Introduction to Business 3 (3,0,0,0)
Designed to build a business foundation and to give students a broad background of modern business principles. Course will introduce students to the business profession by incorporating and integrating business knowledge and information across departmental curriculum lines to enhance the overall comprehension of the business world. Class projects are assigned to promote teamwork among students to use their own capabilities in utilizing all educational aspects.
COURSE DESCRIPTIONS

BUS 102B  Entrepreneurship and Innovation  3 (3,0,0,0)
Practical overview of business start up, planning, preparation, and risk assessment. Concentration on business plan formulation including acquiring financing, personnel selection, sales and marketing.

BUS 106B  Business English  3 (3,0,0,0)
Utilizes previous English language experience to train students in the basic skills of business communication in both oral and written form. Excellent foundation for Business Letters/Reports.
Prerequisite: ENG 100 or ENG 101 with a grade of C or better.

BUS 107  Business Speech Communication  3 (3,0,0,0)
Designed to provide students with the opportunity to develop speaking and listening skills necessary for successful on-the-job communications. Emphasizes interpersonal and organizational communications such as interviewing, small group dynamics and oral presentations.

BUS 108  Business Letters and Reports  3 (3,0,0,0)
Designed to develop conceptual skills in all types of written and oral business communications, furnish practical applications of these skills, and acquaint the student with tools and techniques required to communicate in the real world of business.
Prerequisite: ENG 100 or ENG 101 with a grade of C or better.

BUS 109B  Business Mathematics  3 (3,0,0,0)
Fundamental mathematical processes for the business person and the consumer are reviewed. Discounts, commissions, depreciation, overhead and interest rates are studied.

BUS 271  Introduction to Employment Law  3 (3,0,0,0)
The study of federal and state labor law and employment law and how it impacts employers, employees and the American workforce.

BUS 272  Legal Environment  3 (3,0,0,0)
Nature and function of law, legal systems, constitutional law, administrative law, antitrust, consumer protection, torts and product liability.

BUS 273  Business Law I  3 (3,0,0,0)
A study of the law as it applies to contract sales and commercial paper.

BUS 274  Business Law II  3 (3,0,0,0)
A study of law as it applies to secured transactions, agency, employment, partnerships, corporations and property.

BUS 275B  Fundamentals of International Business  3 (3,0,0,0)
This course will introduce the student to the exciting world of International Business. It will examine the following: direct focus on the development of management skills in handling problems of multinational business; analysis of problems stemming from the movement of goods, services, human resources, technology, finance, and ownership across national boundaries.
Prerequisite: BUS 101.

BUS 280B  Legal Aspects of International Business  1-3 (1-3,0,0,0)
An introductory overview of International Law divided into three week topical sections of related business and legal aspects designed to emphasize international imports and exports, treaties and remedies. The student may select all or one of the sections; one credit per section.

BUS 290B  Internship in Business  3 (0,0,0,15)
A course designed wherein students will apply knowledge to real on-the-job situations in a program designed by a company official and a faculty advisor to maximize learning experiences. Available to students who have completed the majority of their general education requirements and have completed at least 21 credits of special program requirements and have a 3.0 GPA in their special program required courses. Contact the appropriate faculty member for the application, screening and required skills evaluation.

Computer Aided Drafting and Design

CADD 100  Introduction to Computer Aided Drafting  3 (2,3,0,0)
Student will be introduced to the basic operation of a CADD workstation using AutoCAD software in a Microsoft Windows environment to produce two-dimensional design drawings.
Prerequisite: IS 100B or IS 101.

CADD 105  Intermediate Computer Aided Drafting  3 (2,3,0,0)
This course is a continuation of CADD 100, introducing the student to the automated features of a CADD workstation using industry standard CADD software to produce two-dimensional design drawings. Additional lab hours are required.
Prerequisite: CADD 100.

CADD 140  Technical Drafting I  3 (2,3,0,0)
This course will introduce the students to manufacturing situations according to industrial standards. Computer aided drafting techniques are used to solve advanced drafting problems.
Prerequisite: CADD 100.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours</th>
<th>Prerequisites/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADD 141B</td>
<td>Technical Drafting II</td>
<td>3</td>
<td>(2,3,0,0)</td>
<td>Introduces shop processes, detailed working drawings, precision dimensioning, limits and tolerances, design layouts, shop notes, parts lists, assembly drawings, developments and intersections and pictorial drawings. Prerequisite: CADD 140.</td>
</tr>
<tr>
<td>CADD 245</td>
<td>Solid Modeling and Parametric Design</td>
<td>3</td>
<td>(2,3,0,0)</td>
<td>Provides training and instruction in using parametric solid modeling software to create solid model parts, assemblies, and working drawings. Prerequisites: CADD 105 and MATH 104B.</td>
</tr>
<tr>
<td>CADD 246B</td>
<td>Solid Modeling and Parametric Design II</td>
<td>3</td>
<td>(2,3,0,0)</td>
<td>This course will provide advance training and instruction by using parametric solid modeling software to create solid model parts, assemblies, and working drawings. This course will prepare students for the SolidWorks certification exam. Prerequisite: CADD 245.</td>
</tr>
<tr>
<td>CADD 250</td>
<td>CAD Systems Management</td>
<td>3</td>
<td>(2,3,0,0)</td>
<td>Office management of Computer Aided Design and Drafting (CADD) personnel within an office environment including hardware and software selections, back-up procedures, and office standards, policies, and security. Prerequisites: CADD 105 and COM 115.</td>
</tr>
<tr>
<td>CADD 299B</td>
<td>CADD Capstone</td>
<td>3</td>
<td>(2,3,0,0)</td>
<td>This capstone course will assess the student’s rate of progress in the CADD Technology program to include: 2D drafting with CAD, 3D solid modeling, 3D printing, and setting drafting standards. Graded Pass/Fail. Prerequisite: Program Director approval.</td>
</tr>
<tr>
<td>CAPS 123</td>
<td>Career Development</td>
<td>1-3</td>
<td>(1-3,0,0,0)</td>
<td>A beginning course in life and career planning. Offered to assist participant to make informed occupational choices. Explore abilities, interests, values, aptitudes and occupational needs to assist in life planning.</td>
</tr>
<tr>
<td>CAPS 125B</td>
<td>Job Search Techniques</td>
<td>1-3</td>
<td>(1-3,0,0,0)</td>
<td>This course will present techniques for use in the job hunting process. Résumé writing, research strategies, skills identification plus practice interview techniques will be utilized. May be repeated 3 times.</td>
</tr>
<tr>
<td>CAPS 126B</td>
<td>Parenting Skills</td>
<td>1-3</td>
<td>(1-3,0,0,0)</td>
<td>This course meets the need of CSN students who are single parents, blended families and many times for local and federal requirements in divorce mediation. May be repeated up to a maximum of 3 credits.</td>
</tr>
<tr>
<td>CAPS 127</td>
<td>College Success for Hispanic Leaders</td>
<td>2</td>
<td>(2,0,0,0)</td>
<td>The goal of this course is to close the gap between the college completion rates of Hispanics compared to non-Hispanics. Problems unique to Hispanic student achievement will be covered including study skills techniques, short and long term college planning, self-discovery and development of cross-cultural competency in leadership style.</td>
</tr>
<tr>
<td>CAPS 128</td>
<td>Foundations of Success for International Students</td>
<td>1</td>
<td>(1,0,0,0)</td>
<td>Foundations of Success for International Students is designed to assist students with F-1 visas to overcome the difficulties often experienced with achieving academic success in an unfamiliar environment. Particular attention will be paid to achieving academic success in an unfamiliar environment, how to understand the complex relationship between academics and regulatory issues, and techniques for successfully managing cultural adjustments issues.</td>
</tr>
<tr>
<td>CAPS 129B</td>
<td>Assertiveness Techniques</td>
<td>1-3</td>
<td>(1-3,0,0,0)</td>
<td>This class will explain the difference between passive, aggressive and assertive actions and help the student to gain self-esteem and confidence when communicating with others. May be repeated up to a maximum of 3 credits.</td>
</tr>
<tr>
<td>CAPS 130</td>
<td>Stress Management Techniques</td>
<td>1-3</td>
<td>(1-3,0,0,0)</td>
<td>Surveys personal lifestyles to identify areas of handling stress and tension that occurs in daily life. Techniques will be taught that will help to cope with anxiety producing situations. May be repeated up to a maximum of 3 credits.</td>
</tr>
<tr>
<td>CEE 241</td>
<td>Statics</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>Engineering analysis of concentrated and distributed force systems at equilibrium; analysis of structures, beams and cables, friction, virtual work, fluid statics, shear and moment diagrams. Prerequisites: PHYS 180 and MATH 182.</td>
</tr>
<tr>
<td>CF 117B</td>
<td>Computer Forensics</td>
<td>3</td>
<td>(3,0,0,0)</td>
<td>This course introduces the student to the preservation, identification, extraction, documentation and interpretation of crime related computer data. This course will include both lecture and demonstration of investigative techniques. Student should have basic computer knowledge.</td>
</tr>
</tbody>
</table>
CF 118B  Internet Forensics  3 (3,0,0,0)
This course introduces the student to network intrusion analysis. It will cover DNS, ICMP, and fragmentation intrusion techniques and the use of TCP dump and SNORT in intrusion detection and prevention.
Prerequisite: CIT 112B

CF 119B  Introduction to Electronic Crime for Law Enforcement  3 (3,0,0,0)
This course is an introduction to the investigation of high-tech crime. It will present the tools and methods used by criminals in identity theft, financial crimes, drug trafficking, crimes against children, hacking, terrorism and other electronic crimes. It will also include high-tech intelligence gathering methods and legal considerations, including ECPA, pen/trap orders, CALEA, and Title III wire taps.

CF 124B  Digital Crime Investigation  3 (3,0,0,0)
Digital evidence plays a role in a wide range of crimes. The purpose of this course is to educate students about digital evidence and computer crime. It explains how computers are used in crimes, how they can be used as a source of evidence, relevant legal issues, deductive criminal profiling, criminal motivations, and investigative techniques.

CF 217B  Advanced Computer Forensics  3 (3,0,0,0)
This course builds upon the skills learned in Computer Forensics. It includes lecture on advanced computer forensics topics and demonstration and practice in using computer forensics tools to analyze and reconstruct evidentiary data.
Prerequisite: CF 117B.

CF 250B  Mobile Device Forensics  4 (3,2,0,0)
This course provides the fundamental knowledge and skills needed to investigate data that can be found on basic cell phones, smartphones, and GPS devices. It includes lecture on mobile device forensics topics as well as demonstration and practice in using mobile device forensic tools to extract and analyze evidentiary data.
Prerequisite: CF 117B.

Chemistry

CHEM 103  Preparatory Chemistry  3 (3,0,0,0)
Serves as a preparation for CHEM 121. Introduces general principles and terminology in chemistry to students with poor chemistry backgrounds. Exercises aimed at developing problem solving skills. Students should have taken or have concurrent enrollment in MATH 126 or higher to prepare for General Chemistry I.
Prerequisite: MATH 096 or MATH 124 or higher.

CHEM 105  Chemistry, Man and Society  3 (3,0,0,0)
A survey of basic ideas in chemistry for non-science majors. Explores chemistry at work in everyday life. Investigates structure and change in the real world.

CHEM 106  Beginning Chemistry Laboratory  1 (0,3,0,0)
Laboratory exercises designed to illustrate material discussed in CHEM 105. May be used in partial fulfillment of the General Education Core requirement.
Prerequisite: CHEM 105 (or concurrent enrollment in CHEM 105).

CHEM 107  Food Chemistry  4 (3,3,0,0)
An introduction to composition of food including water, nutrients (carbohydrates, proteins, fats), food additives, flavoring and the changes they undergo during processing and storage. Using concepts of the scientific method, students will also examine the chemistry of minerals, vitamins and food coloring and explore the interaction of these items in the human body. This course is designed for non-science majors with little or no background in chemistry.

CHEM 108  Introduction to Chemistry  4 (4,0,0,0)
Survey of elementary principles of general chemistry, organic chemistry, and biochemistry, and their application to living systems. For non-science majors and students majoring in nursing and allied health.
Prerequisite: High school chemistry or Instructor approval.

CHEM 110  Chemistry for Health Sciences I  4 (3,3,0,0)
Survey of general chemistry designed for Allied Health majors and non-science majors. Emphasis on the foundation needed for the study of organic and biochemistry.
Prerequisite: MATH 120 or MATH 124 or above.

CHEM 111  Chemistry for Health Sciences II  4 (3,3,0,0)
Survey of organic and biochemistry designed for Allied Health majors, and non-science majors. Application of chemical principles leading to an understanding of how living organisms function.
Prerequisite: CHEM 110.

CHEM 121  General Chemistry I  4 (3,3,0,0)
An investigation of the fundamental structure of matter and chemical terminology. Introduces topics such as solution chemistry, thermochemistry and gas laws. Designed for science and pre-professional majors. Students enrolled in CHEM 121 should have taken or have concurrent enrollment in MATH 127 or MATH 128.
Prerequisite: CHEM 103 or CHEM 110 or a passing score on the Chemistry Placement Exam.
CHEM 122 General Chemistry II 4 (3,3,0,0)
An application of chemical principles to inorganic systems. Emphasis on thermodynamics, equilibrium and kinetics.
Prerequisites: CHEM 121 and MATH 127 or MATH 128.

CHEM 220 Introductory Organic Chemistry 4 (3,3,0,0)
Introduction to the properties of organic functional groups and to elementary laboratory techniques.
Prerequisite: CHEM 122.

CHEM 241 Organic Chemistry I 4 (3,3,0,0)
Intensive introduction to the chemistry of carbon and its functional groups, including the structure and behavior of its molecules. Laboratory emphasis is on natural processes.
Prerequisite: CHEM 122.

CHEM 242 Organic Chemistry II 4 (3,3,0,0)
Continuation of CHEM 241, covering simple and poly-functional compounds, with emphasis on syntheses of organic molecules. Laboratory emphasis on natural processes and qualitative analysis.
Prerequisite: CHEM 241.

CHEM 292 Selected Topics in Chemistry 1-4 (0,3-12,0,0)
Covers selected topics of interest to students in chemistry.
Prerequisites: CHEM 122 and Instructor approval.

Chinese

CHI 101B Conversational Chinese I 3 (3,0,0,0)
A course emphasizing spoken communication. Speaking skills, oral listening skills, reading and writing skills explored. A vocabulary of Chinese-English words developed.

CHI 102B Conversational Chinese II 3 (3,0,0,0)
A continuation of CHI 101B, Conversational Chinese I.
Prerequisite: CHI 101B.

CHI 111 First Year Chinese I 4 (4,0,0,0)
The development of language skills in listening, speaking and writing. Oral emphasis.

CHI 112 First Year Chinese II 4 (4,0,0,0)
A second semester course designed to continue and improve skills learned in CHI 111.
Prerequisite: CHI 111.

CHI 211 Second Year Chinese I 3 (3,0,0,0)
A continuation of CHI 112 and intended for non-native Chinese speakers who wish to study Chinese including listening, speaking, reading, and writing.
Prerequisite: CHI 112.

CHI 212 Second Year Chinese II 3 (3,0,0,0)
A continuation of CHI 211 and includes structural review and development of the intermediate level of conversation, reading, and writing.
Prerequisite: CHI 211.

Computing and Information Technology

CIT 095 Personal Computer Basics 3 (3,0,0,0)
This course provides a hands-on, activity based learning experience that covers computer terminology, working with files, and protecting against computer viruses. It explores the Internet, teaches how to email and share pictures via email, and how to do searches. Students will create a document with word processing software and a basic budget with spreadsheet software. An overview of other computer applications such as data bases and presentations will be included. Graded Pass/Fail.

CIT 110 A+ Hardware 3 (3,1,0,0)
This course will prepare students to maintain PCs, identify and correct errors in hardware configuration, upgrade and install new hardware as well as preparation for the A+ Core test.

CIT 111 A+ Software 3 (3,0,0,0)
Lectures and tests prepare students to take and pass the A+ Operating Systems module test. Students must also take and pass the A+ Core test to be A+ certified.

CIT 112B Network+ 3 (3,0,0,0)
This course covers basic networking terminology, network components, transmission media and protocols. Focuses on the OSI model of network computing. Course serves as preparation for the CompTIA Network+ exam.

CIT 114B IT Essentials 4 (3,2,0,0)
Provides a comprehensive overview of the primary operating systems and the support of hardware devices. Demonstrates the integration between hardware and software. Emphasis is on installing, configuring, troubleshooting and upgrading a PC, and working with computer users as an IT technician. Assists student preparation for CompTIA A+ certification.

CIT 118B Network Security Management 3 (3,0,0,0)
Students will learn about network and information security management topics, including Information Security Common Body of Knowledge (ISCBK), threat techniques, and protective techniques through a technical approach. Risk analysis, contingency planning, categories of security devices, password techniques, encryption, network protocol, and intercept devices are emphasized as part of the appropriate ISCBK domain.

CIT 119B Business Data Networks 3 (3,0,0,0)
This is an introductory course that looks at various types of data networks used in many organizations. The students will learn about LANs, WANs, OSI and TCP/IP models, IP addressing, dial-up devices, security, network applications, and network management.
CIT 130  Beginning Java  3 (3,0,0,0)
An introduction to the Java programming language. Covers the
language’s control structures, Object Oriented Concepts, simple
graphical displays, file input/output, and error handling.
Prerequisites: IS 115 or Instructor approval.

CIT 131  Beginning C Programming  3 (3,0,0,0)
An introduction to the C programming language. Topics will
include C data types, input, output, operators, decision and looping
statements, functions, and the C library.
Prerequisites: IS 115 or Instructor approval.

CIT 132  Beginning Visual Basic  3 (3,0,0,0)
An introduction to the Visual Basic.NET programming language.
Topics will include problem solving, Visual Basic.NET Objects,
control structures, input, output, events, methods, functions, and
display of data.
Prerequisites: IS 115 or Instructor approval.

CIT 133  Beginning C++  3 (3,0,0,0)
An introduction to the C++ programming language. Topics will
include C++ data types, input, output, operators, decision and looping
statements, functions and classes.
Prerequisites: IS 115 or Instructor approval.

CIT 134B  Beginning C# Programming  3 (3,0,0,0)
An introduction to the C# programming language. Use of the C#
programming language for solving problems. Covers C#'s control
structures, Object Oriented Concepts, simple graphical displays,
file input/output, and error handling.
Prerequisites: IS 115 or Instructor approval.

CIT 150  Dynamic Web Applications  3 (3,0,0,0)
Hands-on exploration of Web applications such as wikis, blogs,
syndication methods, podcasting, social networking, virtual
worlds, online video and image sharing, and web based office
applications. In-depth examination of these increasingly pervasive
Web 2.0 applications and of their implications and potential
for many career fields. Students projects showcased in electronic
portfolios (optional).
Prerequisite: IS 100B or IS 101 or Instructor approval.

CIT 160  Introduction to Computer Security  3 (3,0,0,0)
Principles and practices of protecting valuable data from loss, corrup-
tion and compromise. Emphasis on the needs of home computer
users and small businesses. Topics include data backup, risk assess-
ment, network and internet security and e-commerce.
Prerequisite: IS 100B or IS 101 or Instructor approval.

CIT 173  Introduction to Linux  3 (3,0,0,0)
An introduction to the Linux Operating System. Topics include
Linux origins, file system, user commands and utilities, graphical
user interfaces, editors, manual pages and shells. Students are ex-
pected to have basic computer literacy prior to enrolling in
this course.

CIT 174  Linux System Administration  3 (3,0,0,0)
This course covers a variety of topics: installing and configuring a
Linux Server, managing users and groups, securing the system and
much more. Students should complete CIT 173 or have a knowl-
edge of Linux fundamentals before attending this course.

CIT 176  Linux Shell Programming  3 (3,0,0,0)
An introduction to the Linux shell, shell scripts, shell program-
ming, and utilities. Topics will include the Linux Bash, Korn, and
C shells; regular expressions; and grep, sed, and awk utilities.
Students will learn to automate system administration tasks with
shell scripts, programs, and Linux utilities.

CIT 180  Database Concepts and SQL  3 (3,0,0,0)
Basic principles of data modeling and relational database design.
Hands-on learning of Structured Query Language (SQL).
Prerequisite: IS 115 or Instructor approval.

CIT 181  Introduction to Oracle  3 (3,0,0,0)
The fundamentals of the Oracle software system. It will include
hands-on experience with Oracle’s implementation of SQL, its
procedural extension of SQL (PL/SQL), and its development tools,
such as SQL*Plus and Oracle Application Express.
Prerequisite: CIT 180 or Instructor approval.
CIT 183 Database Administration 3 (3,0,0,0)
An introduction to the primary responsibilities of a database administrator. Learn to install a DBMS, such as SQL Server or Oracle; to manage database objects to monitor performance; to manage data storage; to oversee database security and user access; to ensure database connectivity; and to plan for backup and recovery.
Prerequisite: CIT 180 or Instructor approval.

CIT 184 Oracle PL/SQL Programming I 3 (3,0,0,0)
The basics of writing Oracle PL/SQL program units. PL/SQL primitive data types, control structures, cursors, procedures, functions, packages, and triggers will be covered.
Prerequisite: CIT 180 or Instructor approval.

CIT 201B Word Certification Preparation 3 (3,0,0,0)
Comprehensive coverage of basic and advanced features of Microsoft Word including, but not limited to, the set of skills on Microsoft’s certification exams for Word.
Prerequisite: IS 100B or IS 101.

CIT 202B Excel Certification Preparation 3 (3,0,0,0)
Comprehensive coverage of basic and advanced features of Microsoft spreadsheet software including, but not limited to, the set of skills on Microsoft’s certification exams for Excel.
Prerequisite: IS 100B or IS 101.

CIT 203B Access Certification Preparation 3 (3,0,0,0)
Comprehensive coverage of basic and advanced features of database management software including, but not limited to, the set of skills on Microsoft’s certification exams for Access.
Prerequisite: IS 115 or Instructor approval.

CIT 206B MS Outlook Certification Preparation 2 (2,0,0,0)
Recognizes and applies basic and advanced features of Outlook including, but not limited to, the skills on the Microsoft Outlook Certification exams. Each component of the Outlook package will be identified and explored as an integrated system. Students should have basic computer skills.

CIT 211 MCITP/MCTS Windows Workstation OS 3 (3,0,0,0)
The Core A Operating systems course prepares student to prove their expertise with desktop, server and networking components. Core A consists of the required areas of study mandated by Microsoft for their MCITP/MCTS certification in a client operating system. Students should have basic computer skills.

CIT 212 MCITP/MCTS Windows Server OS 3 (3,0,0,0)
The Core B Advanced Operating systems course prepares students to prove their expertise with server operating systems and networking components. Core B consists of the required areas of study mandated by Microsoft to complete their MCITP/MCTS requirements. Students should have basic computer skills.

CIT 213 MCITP/MCTS Network Infrastructure 3 (3,0,0,0)
The Core C operating systems course prepares student to prove their expertise with desktop, server and networking components. Core C consists of the required areas of study mandated by Microsoft in order to complete their MCITP or MCTS certification requirements.
Prerequisite: CIT 112B.

CIT 214 MCITP Application Infrastructure 3 (3,0,0,0)
The Core D course prepares students to prove their expertise with desktop, server and networks. This course consists of the required areas of study mandated by Microsoft in order to complete their MCITP Enterprise Administrator core requirements.
Prerequisite: CIT 112B.

CIT 215 MCITP Active Directory 3 (3,0,0,0)
This course prepares students to prove their expertise with desktop, server and networks. This course consists of the required areas of study mandated by Microsoft in order to complete their MCITP core requirements.
Prerequisite: CIT 112B.

CIT 216 Server+ 3 (3,0,0,0)
An intense class to prepare mid- to upper-level technicians, responsible for server hardware functionality, to take the CompTIA Server+ certification exam. The Server+ certification credential validates advanced-level technical competency of server issues and technology, including installation, configuration, upgrading, maintenance, troubleshooting, and disaster recovery. Students will learn how to install, configure, diagnose, and troubleshoot server hardware and network operating systems.
Prerequisite: CIT 112B Network+ or associated certification.

CIT 217 Security+ 3 (3,0,0,0)
The purpose of this class is to prepare professionals with at least two years of networking experience and who possess a thorough knowledge of TCP/IP to take and pass the CompTIA Security+ certification exam. Topics will include general security concepts, communications security, infrastructure security basics of cryptography, and operational/organizational security.
Prerequisite: CIT 112B or associated certifications.
COURSE DESCRIPTIONS

CIT 218  Microsoft Special Topics  3 (3,0,0,0)
Special topics on computers and networking equipment, OS, and administration will be covered. This course is designed specifically for students pursuing MCITP or MCTS certifications or for those desiring additional learning after achieving a Microsoft Advanced Certification. This course can be repeated to a maximum of 9 credits with different topics.
Prerequisite: CIT 112B or Instructor approval.

CIT 222B  Information Storage Management  3 (3,0,0,0)
Course teaches the architectures, features, and benefits of intelligent storage systems; storage networking technologies such as FC SAN, IP SAN, NAS, and object-based and unified storage; business continuity solutions such as backup and replications; information security and management; and Cloud computing. Prepares students for EMC certification.
Prerequisite: CIT 112B and CIT 211

CIT 230  Advanced Java  3 (3,0,0,0)
An advanced course in the Java programming language. Provides specific examples of applications for which Java is designed.
Prerequisite: CIT 130 or Instructor approval.

CIT 231  Advanced C Programming  3 (3,0,0,0)
An advanced course in the C programming language. Topics will target problem solving using advanced methods in C including structures, arrays, pointers, sequential and direct access files in the C language.
Prerequisite: CIT 131 or Instructor approval.

CIT 232  Advanced Visual Basic  3 (3,0,0,0)
A continuation of CIT 132. Advanced program structures in Visual Basic.NET. Topics will include accessing external data and development of classes and other applications for which Visual Basic.NET is designed.
Prerequisite: CIT 132 or Instructor approval.

CIT 233  Advanced C++  3 (3,0,0,0)
Advanced data structures and program structures in C++ language. Larger programs and special examples illustrating applications C++ was designed for.
Prerequisite: CIT 133 or CS 135 or Instructor approval.

CIT 234  Advanced C# Programming  3 (3,0,0,0)
An advanced course in the C# programming language. Topics will include more advanced features of the language including dynamic data structures, reusable data structures, and use of existing collections.
Prerequisite: CIT 134B or Instructor approval.

CIT 238B  Introduction to Smartphone Application Development  3 (3,0,0,0)
This course introduces the student to smartphone application development. Students will develop applications that will function on smartphones using a software development kit and the object oriented language appropriate to the target smartphone. Students will use simulation programs to test their applications. This course may be repeated once with different topics.
Prerequisites: CIT 130 or other object oriented programming language, and a basic knowledge of the Mac and or Window operating systems.

CIT 251  Advanced Web Development  3 (3,0,0,0)
A continuation of CIT 151. It extends student knowledge and skills with HTML and CSS and introduces additional web-related techniques used to make webpages more engaging and more versatile. Extensible Markup Language (XML) will be used introduced as a way to share data among different systems and applications.
Prerequisite: CIT 151 or Instructor approval.

CIT 252  Web Database Development  3 (3,0,0,0)
Design and implementation of interactive, data-driven websites that integrate HTML/CSS, a scripting language (Active Server Pages or PHP), and a database.
Prerequisites: IS 115 and CIT 151 or Instructor approval.

CIT 257  Web Languages  3 (3,0,0,0)
This course explores a variety of emerging technologies that are used in sophisticated websites. Students will explore advanced Internet topics that may include dynamic website content, database integration, e-commerce, security, server-side configurations, scripting, common gateway interfaces and Web application development.
Prerequisites: CIT 152 and CIT 252, or Instructor approval.

CIT 260  Systems Analysis and Design  3 (3,0,0,0)
An examination of systems and their elements and processes. Includes techniques used by systems analysts to determine user requirements and the translation of user requirements into design specifications. Students should have programming experience.

CIT 263B  Project Management  3 (3,0,0,0)
This course introduces students to the concepts of project management and project management software. Students will practice proper project management principles defined by the Project Management Institute in the PMBOK.
Prerequisites: IS 100B or IS 101; and either ENG 100 or above with a grade of C or higher or COM 101 or above with a grade of C or higher; or Instructor approval.
CIT 274B Ethical Hacking 3 (3,0,0,0)
Course introduces students to concepts of penetration testing to validate security measures and identify vulnerability. Topics include IT security awareness, data confidentiality, data integrity, legislated privacy policies, and individual and institutional liability. Course also explores methods used by intruders to gain the access to computer resources and methods to prevent/reduce vulnerability.
Prerequisite: CIT 112B and CIT 211 both with a grade of C or better.

CIT 285B Advanced Database Topics 3 (3,0,0,0)
This course provides an opportunity to explore areas of current interest in database management by exploring special topics. These topics may include the use of databases in corporate environment, data mining, use of data warehouses, etc. This course may be repeated once with different topics.
Prerequisite: CIT 180.

CIT 290 Internship in CIT I 1-3 (0,0,0,5-15)
Supervised work experience within a selected computer and information technology firm or an information systems department in major corporation. Designed by company official and faculty advisor to apply knowledge to on-the-job situation. Available to students entering their last two semesters of instruction for degree. Contact department for application, screening, and required skills evaluation. This course may be repeated once not to exceed a total of 3 credits.

CIT 291 Internship in CIT II 1-3 (0,0,0,5-15)
Supervised work experience within a selected computer and information technology firm or an information systems department in major corporation. Designed by company official and faculty advisor to apply knowledge to on-the-job situation. Available to students entering their last two semesters of instruction for degree. Contact department for application, screening, and required skills evaluation. This course may be repeated once not to exceed a total of 3 credits.
Prerequisite: CIT 290.

CIT 319 Managing Business Data Networks 3 (3,0,0,0)
The student examines business information processing systems, including a study of the computer’s relationship to the overall business information system and its subsystems. The course stresses the development of an overall framework for analyzing the use of information by organizations. Examples are developed to demonstrate the integrative nature of the information systems through the use of case studies and projects.
Prerequisite: CIT 119B or CSCO 120.

CIT 330 Designing Virtualized Systems 4 (3,2,0,0)
Teaches students to install, configure, and manage vSphere, and to install a complete virtual network on VMware Workstation consisting of ESXi hosts, a domain controller, a vCenter server, and an iScsi SAN. This course will help prepare for VCA-DCV and VCP-DCV certifications.
Prerequisite: CIT 112B and CIT 211

CIT 363 Advanced Project and Earned Value Management 3 (3,0,0,0)
This course is a study of advanced Project Management techniques and methodology. Topics include: Earned Value Management, Financial Instruments, Standard Industry Codes, Concepts of Accounting Theory, Budget/Proforma, use of MS Project, Excel, Visio, PowerPoint, and Access to develop, track, and present Project Management data for management review.
Prerequisite: CIT 263B.

CIT 430 Optimizing Virtualized Systems 4 (3,2,0,0)
Teaches students to design and administer advanced vSphere solutions including storage, networks, data protection, and replication. Students will also learn to design and maintain DRS clusters, manage vSphere performance, and design and manage business continuity.
Prerequisite: CIT 330 with a grade of C or better.

CIT 431 Open Source Virtualized Systems 4 (3,2,0,0)
Teaches students to install, configure, administer, and troubleshoot XenServer, an open-source virtual server. Students will learn how to configure a Provisioning Services host, create and manage vDisks, configure the Distributed Virtual Switch (DVS), and Workload Balancing (WLB). Students will also create and manage Windows virtual machines and the resource pools in which they will be placed.
Prerequisite: CIT 330 with a grade of C or better.

CIT 454 E-Commerce 4 (3,2,0,0)
This course provides advanced level instruction in design and implementation of E-Commerce web sites as used in today’s businesses. Topics covered will include how HTML, web scripting, and online databases are used together to create a dynamic and personalized experience for customers of web based businesses.
Prerequisite: CIT 180 with a grade of C or better.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 470</td>
<td>Information Systems Auditing</td>
<td>4</td>
<td>This course covers the body of knowledge required for Information Systems Auditors. The processes, procedures, and requirements to protect, control, and assure accountability are discussed. Understanding of acquisition and development processes that meet current industry standards are presented. This course will prepare the student to take the Certified Information Systems Auditor (CISA) certification exam. Prerequisite: CIT 263B with a grade of C or better.</td>
</tr>
<tr>
<td>CLS 125B</td>
<td>Microbiology for Surgical Technicians</td>
<td>2</td>
<td>An introduction to clinical microbiology with an emphasis on clinically significant microbes, the infectious disease process, control of microbial growth, and aseptic technique. Prerequisite: Admission to program.</td>
</tr>
<tr>
<td>CLS 126B</td>
<td>Applied Microbiology for Surgical Technicians</td>
<td>1</td>
<td>This is a laboratory course utilizing microscopic, cultural, and serological techniques to study the characteristics of selected clinically significant microbes. Specimen collection and processing, as well as disinfection and sterilization methods will also be addressed. Corequisite: CLS 125B.</td>
</tr>
<tr>
<td>CLS 130B</td>
<td>Laboratory Procedures for Medical Office Assistants</td>
<td>2</td>
<td>This course introduces theory and fundamentals of laboratory procedures for personnel working in a physician’s office, including clinical significance of laboratory results.</td>
</tr>
<tr>
<td>CLS 131B</td>
<td>Applied Laboratory Procedures for Medical Office Assistants</td>
<td>1</td>
<td>Practical application of laboratory procedures for personnel working in a physician’s office. Corequisite: CLS 130B.</td>
</tr>
<tr>
<td>CLS 145</td>
<td>Laboratory Methods</td>
<td>2</td>
<td>This is an introduction to the role of the medical laboratory technician in the health care system. Topics include collection and handling of specimens, laboratory computers, quality control and clinical laboratory preview of professional working situation. Prerequisites: Acceptance into program, CHEM 111.</td>
</tr>
<tr>
<td>CLS 146B</td>
<td>Applied Laboratory Methods</td>
<td>2</td>
<td>An introduction to the ordering, processing, and analysis of patient samples; utilization of laboratory equipment, instrumentation, and information system. Corequisite: CLS 145.</td>
</tr>
<tr>
<td>CLS 147B</td>
<td>Medical Laboratory Assistant Clinical Practicum</td>
<td>2</td>
<td>A clinical rotation in specimen accessioning, processing, basic laboratory techniques, and point of care testing. Prerequisite: Completion of Medical Laboratory Assistant program.</td>
</tr>
<tr>
<td>CLS 151</td>
<td>Phlebotomy</td>
<td>2</td>
<td>Study of blood collection methods, with emphasis on patient preparation and identification, sample collection, and selected diagnostic tests performed in the clinical laboratory. Corequisite: CLS 151.</td>
</tr>
<tr>
<td>CLS 152</td>
<td>Applied Phlebotomy</td>
<td>2</td>
<td>Supervised practice of blood collection methods routinely used to collect patient samples for diagnostic testing. Corequisite: CLS 151.</td>
</tr>
<tr>
<td>CLS 153</td>
<td>Phlebotomy Clinical Practicum</td>
<td>2</td>
<td>A clinical rotation in blood collection and specimen processing techniques. Prerequisites: CLS 151 and CLS 152.</td>
</tr>
<tr>
<td>CLS 161</td>
<td>Urinalysis and Body Fluids</td>
<td>1</td>
<td>Theory and practical application of the analysis of urine and other body fluids. Prerequisite: Acceptance into CLS program.</td>
</tr>
<tr>
<td>CLS 162</td>
<td>Applied Urinalysis and Body Fluids</td>
<td>1</td>
<td>Analysis of urine and other body fluids with emphasis on chemical, macroscopic, and microscopic methodologies. Corequisite: CLS 161.</td>
</tr>
<tr>
<td>CLS 241</td>
<td>Clinical Chemistry I</td>
<td>3</td>
<td>This course covers basic principles of methodology in clinical chemistry: physiologic biochemistry, specimen collection, differentiation of normal and abnormal test results, special precautions and troubleshooting of test procedures, validation of reliability and correlation with other laboratory tests. Prerequisites: Acceptance into program, CHEM 111.</td>
</tr>
<tr>
<td>CLS 242</td>
<td>Applied Clinical Chemistry I</td>
<td>2</td>
<td>This course covers specimen collection and processing of carbohydrates, proteins, lipids, heme derivatives, nitrogen, enzymes, blood pH and gases, electrolytes, vitamins, hormones and drugs; liver function tests, analytical instrumentation and quality control. Corequisite: CLS 241.</td>
</tr>
</tbody>
</table>
CLS 251  Immunology/Immunohematology I  2 (2,0,0,0)
An overview of the immune response with emphasis on serological principles used in the laboratory diagnosis of disease processes. Identification of blood group antigens and antibodies and their clinical significance in transfusion therapy.
Prerequisites: Acceptance into program, CHEM 111.

CLS 252  Applied Immunology/Immunohematology I  2 (0,6,0,0)
The following serological and immunohematological laboratory procedures are covered: grouping, typing, compatibility testing, pregnancy testing, titers, cold agglutinins, quality control.
Corequisite: CLS 251.

CLS 261  Clinical Microbiology for Dental Hygienists  2 (2,0,0,0)
An introduction to clinical microbiology with emphasis on microbial diseases of dental origin and diseases with secondary oral manifestations.
Corequisite: CLS 262.

CLS 262  Applied Clinical Microbiology for Dental Hygienists  1 (0,3,0,0)
A laboratory course emphasizing isolation and identification of pathogenic bacteria, through the use of conventional and commercial methods, microscopic techniques, and serological tests. Specimen collection and processing of microbiological samples will also be addressed.
Corequisite: CLS 261.

CLS 265  Laboratory Operations I  1 (1,0,0,0)
Introduction to clinical laboratory sciences including laboratory safety, professional ethics, fundamental laboratory calculations, quality assessment, laboratory information systems, and correlation of laboratory data in patient care.
Prerequisite: Acceptance into MLT/MLS program.

CLS 271  Clinical Microbiology I  3 (3,0,0,0)
The study of microorganisms of medical importance to man. Includes characteristics, medical significance and identification of bacteria, mycobacteria, viruses, fungi and parasites.
Prerequisite: Acceptance into CLS program.

CLS 272  Applied Clinical Microbiology I  2 (0,6,0,0)
Specimen collection and processing. Isolation and identification of pathogenic bacteria, through the use of conventional and commercial methods, microscopic techniques and serological tests.
Corequisite: CLS 271.

CLS 291  Hematology I  2 (2,0,0,0)
Development, identification and function of cellular and humoral elements in whole blood. Principles of laboratory assays used in determining the existence and diagnosis of hematologic disorders.
Prerequisites: Acceptance into program, CHEM 111.

CLS 292  Applied Hematology I  2 (0,6,0,0)
Slide preparation and staining; manual and automated assays of whole blood components; cell identification; coagulation tests and special hematologic procedures.
Corequisite: CLS 291.

CLS 294  Clinical Practicum I  2 (0,0,6,0)
A clinical rotation in clinical microbiology.
Prerequisite: CLS 272.

CLS 295  Clinical Practicum II  2 (0,0,8,0)
A clinical rotation in chemistry, urinalysis, and body fluids.
Prerequisites: CLS 162 and CLS 242.

CLS 296  Clinical Practicum III  4 (0,0,12,0)
A clinical rotation in hematology, coagulation, immunology, and immunohematology.
Prerequisites: CLS 252 and CLS 292.

CLS 365  Laboratory Operations II  1 (1,0,0,0)
Theory and practice of fiscal/personnel management of laboratory practitioners. Assay implementation, government regulatory and accreditation policies. Applications of basic educational methods for laboratory personnel.
Prerequisite: CLS 265.

CLS 446  Clinical Chemistry II  2 (2,0,0,0)
Advanced study of chemical analysis of blood, urine and other body fluids in normal and abnormal physiological conditions. Topics include endocrinology, toxicology and special procedures.
Prerequisite: CLS 242.

CLS 447  Applied Clinical Chemistry II  1 (0,3,0,0)
Advanced laboratory applications in chemical analysis of blood, urine and other body fluids in normal and abnormal physiological conditions. Topics include endocrinology, toxicology and special procedures.
Corequisite: CLS 446.

CLS 448  Hematology II  2 (2,0,0,0)
Diagnostic hematology and body fluid analysis, with advanced study of anemias, leukemias, myeloproliferative and myelodysplastic disorders, and advanced topics in hemostasis.
Prerequisite: CLS 292.
### COURSE DESCRIPTIONS

**CLS 449  Applied Hematology II  1  (0,4,0,0)**
Diagnostic hematology and body fluid analysis with emphasis on laboratory testing and molecular markers used to differentiate/diagnose various hematologic malignancies and hemostasis disorders.
Corequisite: CLS 448.

**CLS 456  Immunology/Immunohematology II  2  (2,0,0,0)**
Study of advanced principles of immunology and the identification of clinically significant blood group antigens and antibodies in transfusion medicine.
Prerequisite: CLS 252.

**CLS 457  Applied Immunology/Immunohematology II  1  (0,4,0,0)**
Applied laboratory procedures in immunologic and molecular techniques used to analyze antigen-antibody reactions in the diagnosis of health or disease. Includes advanced immunohematological procedures.
Corequisite: CLS 456.

**CLS 476  Clinical Microbiology II  2  (2,0,0,0)**
Advanced study of pathogenic microorganisms. Emphasis on fungal, parasitic, viral, mycobacterial diseases as well as normal and pathogenic bacteria from specific body sites.
Prerequisite: CLS 272.

**CLS 477  Applied Clinical Microbiology II  1  (0,4,0,0)**
Advanced practical applications used in recovery, isolation and identification of pathogenic microorganisms. Includes fungi, parasites, mycobacteria, viruses and miscellaneous bacteria.
Corequisite: CLS 476.

**CLS 478  Research Methods  2  (2,0,0,0)**
Study of basic research concepts and principles aimed at equipping students with skills and tools for systematic investigation in health sciences and writing of research proposals.
Prerequisites: ECON 261 and CLS 477.

**CLS 491  Clinical Practicum – Chemistry  4  (0,0,12,0)**
Clinical rotation in Clinical Chemistry. Designed to gain applied experiences and develop entry-level competencies as a Medical Laboratory Scientist.
Prerequisite: CLS 447.

**CLS 493  Clinical Practicum – Immunology/Immunohematology  4  (0,0,12,0)**
Clinical rotation in Immunology/Immunohematology. Designed to gain applied experiences and develop entry-level competencies as a Medical Laboratory Scientist.
Prerequisite: CLS 457.

**CLS 495  Clinical Practicum – Microbiology  4  (0,0,12,0)**
Clinical rotation in Microbiology. Designed to gain applied experiences and develop entry-level competencies as a Medical Laboratory Scientist.
Prerequisite: CLS 477.

**CLS 497  Clinical Practicum – Hematology  4  (0,0,12,0)**
Clinical rotation in Hematology. Designed to gain applied experiences and develop entry-level competencies as a Medical Laboratory Scientist.
Prerequisite: CLS 449.

### Communication

**COM 101  Oral Communication  3  (3,0,0,0)**
Theory and practice in extemporaneous speaking and other prepared speaking experiences.

**COM 101H  Oral Communication – Honors  3  (3,0,0,0)**
Theory and practice in spoken communication and other speaking experiences. Honors addresses a greater body of research and focuses on a required theme. Honors-level courses can be used to fulfill equivalent general education requirements.
Prerequisite: Admission to the Honors program.

**COM 102  Introduction to Interpersonal Communication  3  (3,0,0,0)**
Theory and practice in effective interpersonal communication with written and real world applications. Topics may include perception, using verbal and nonverbal symbols, listening, self-disclosure, interpersonal conflict, developing and maintaining relationships.
Prerequisite: ENG 100 or ENG 101.

**COM 115  Applied Communication  3  (3,0,0,0)**
Emphasis placed on improving oral and written communication skills in the workplace, including organizational networks, interviewing, presentations, listening and groups. Culture and personality are analyzed.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 116</td>
<td>Critical Reasoning in Daily Life</td>
<td>3</td>
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<tr>
<td></td>
<td>Theory and practice of critical reasoning applied to a variety of everyday communication forms, including arguments, narratives, advertisements, visual media, protests, performances, and public space.</td>
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<tr>
<td>COM 133</td>
<td>Culture and Communication</td>
<td>3</td>
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<tr>
<td></td>
<td>Introduction to theory, analysis and practice in understanding culture and its impact on communication. Emphasis on the use of cultural awareness and multicultural sensitivity to improve oral and written communication skills. (Same as ANTH 133.)</td>
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<tr>
<td>COM 180</td>
<td>Cinema as Art and Communication</td>
<td>3</td>
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<td></td>
<td>A survey of cinema in its diverse forms. Historical and stylistic influences on the aesthetic values and implications of cinema. The course focuses on writing about film from various perspectives. Research of peer reviewed journal articles is a focus. Illustrated by screen examples.</td>
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<tr>
<td>COM 196</td>
<td>Internship</td>
<td>1-3</td>
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<td></td>
<td>A supervised workshop experience in a local television studio, radio station, newspaper, advertising agency, public relations firm or any other organization relating to communication. Can be repeated for a total of 6 credits.</td>
<td></td>
<td>Prerequisites: Approval of the station, newspaper, agency or firm where internship will be completed and approval from the Department of Communication Internship Coordinator.</td>
</tr>
<tr>
<td>COM 203</td>
<td>Advanced Public Speaking</td>
<td>3</td>
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<tr>
<td></td>
<td>Theory and practice in extemporaneous speaking and other prepared speaking experiences. Emphasis on advanced delivery and research skills for public speaking.</td>
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<tr>
<td>COM 211</td>
<td>Survey of Rhetorical Studies</td>
<td>3</td>
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<tr>
<td></td>
<td>Survey of historical development of various rhetoric canons, concepts, and perspectives beginning with ancient Greek and Roman rhetoric and concluding with contemporary discourse and rhetorical theory.</td>
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<tr>
<td>COM 215</td>
<td>Introduction to Group Communication</td>
<td>3</td>
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<td></td>
<td>Theory and practice in small group communication. Emphasis placed on discussion, problem solving, group roles, conflict management, and leadership.</td>
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<tr>
<td>COM 216</td>
<td>Survey of Communication Studies</td>
<td>3</td>
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<tr>
<td></td>
<td>Survey and analysis of the concepts, principles, and values of human communication grounded in communication theory and practice.</td>
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<tr>
<td>COM 217</td>
<td>Argumentation and Debate</td>
<td>3</td>
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<tr>
<td></td>
<td>Theory and practice in oral argumentative discourse. Emphasis placed on developing reasoning skills, critical thinking, preparing and presenting oral arguments within discussions and debates. Prerequisite: COM 101.</td>
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<tr>
<td>COM 288</td>
<td>Careers in Communication</td>
<td>3</td>
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<tr>
<td></td>
<td>This course is designed to introduce Communication majors to the job search process in the field of Communication. Emphasis is placed on personality assessment, interviewing skills, and drafting job search documents.</td>
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<tr>
<td>COM 299</td>
<td>Special Topics in Communication</td>
<td>1-4</td>
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<tr>
<td></td>
<td>Investigates a special topic and/or area of interest within the field of Communication Studies. May be repeated for up to 6 credits.</td>
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<tr>
<td>COM 340</td>
<td>Cross Cultural Communication in Health Care</td>
<td>3</td>
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<td></td>
<td>Emphasis on multicultural differences within the health care systems. Focus on recognition of various cultural beliefs and attitudes in professional communication. Overview of cross-cultural theoretical perspectives.</td>
<td></td>
<td>Prerequisite: Admission to Dental Hygiene Bachelor of Science Degree Program.</td>
</tr>
<tr>
<td>CONS 111B</td>
<td>Commercial Building Codes (IBC)</td>
<td>4</td>
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<tr>
<td></td>
<td>A basic course designed to introduce the International Building Code, with emphasis placed on the development and proper use of the commercial building codes.</td>
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<tr>
<td>CONS 113B</td>
<td>Residential Building Codes (IRC)</td>
<td>4</td>
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<tr>
<td></td>
<td>A basic course designed to introduce the International Residential Code, with emphasis placed on the development and proper use of residential building, mechanical, plumbing, and electrical code requirements.</td>
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<tr>
<td>CONS 120B</td>
<td>Construction Plans and Specifications</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of the fundamental language utilized in construction drawings. Emphasis will be placed on residential and light commercial plans.</td>
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</tr>
</tbody>
</table>
CONS 205B Construction Site Safety OSHA Standards 3 (3,0,0,0)
This course includes 30-hours of authorized training addressing the 29 CFR 1926 OSHA Construction Industry Regulation Standards. The identification of asbestos, lead, mold, radon and other hazardous materials in potential construction projects will also be covered in this course. Upon completion, students will receive a certificate from the U.S. Department of Labor’s Occupational Safety and Health Administration. (Same as ESH 222B.)

CONS 221 Construction Estimating 3 (2,2,0,0)
Advanced estimating concepts based on utilizing excel spreadsheet for both residential and/or commercial projects. Students must have basic computer skills.
Corequisite: CONS 281B. Prerequisite: MATH 104B.

CONS 281B Construction Planning, Scheduling and Control 3 (2,2,0,0)
Topics include project scheduling and evaluation using scheduling techniques. Critical path scheduling is also used.
Corequisite: CONS 221.
Prerequisite: SCT 105B.

CONS 282B Construction Law 3 (3,0,0,0)
Items covered in this course include construction contracts and documents, specifications, contract formation, interpretation, arbitration, professional ethics, Nevada contractor lien laws, construction bonds and contractor’s liabilities, rights and duties.

CONS 285B Construction Estimating and Scheduling 4 (3,3,0,0)
Advanced estimating and scheduling concepts for residential and commercial projects. The critical path scheduling method will be used. Students must have basic computer skills.
Prerequisites IS 100B or IS 101; and MATH 104B and SCT 105B.

CONS 286B Construction Management and Analysis 3 (3,0,0,0)
Introduction to management theory and techniques with applications to construction problems, management principles and methods of applying this knowledge to the modern construction industry.
Prerequisite: ENG 100 or ENG 101 or ENG 107 or ENG 113 and Program Director approval.

CONS 288B Quality Control of Construction Waste 3 (3,0,0,0)
This course will provide a general overview of the hazardous materials management industry, with emphasis on hazardous materials, hazardous waste, laws and regulations, and its effects on the environment and worker health and safety. (Same as WWT 110B.)

CONS 299B Construction Capstone Course 3 (2,3,0,0)
This capstone course will assess the student’s comprehension of the Construction Management program to include: construction estimating, law, management and materials, sustainable construction of new existing buildings and printreading. Graded Pass/Fail.
Prerequisite: Program Director approval.

Computer Office Technology

COT 101B Computer Keyboarding I 3 (3,0,0,0)
Mastery of computer alpha-numeric keyboard and introduction of 10-key pad. Not for students who have previously had typing.

COT 102 Computer Keyboarding II 3 (3,0,0,0)
Formatting of letters, memos, and other office documents. Introduction to word processing. Students should be able to type 25 wpm.

COT 103B Keyboarding Review and Speed 1 (0,2,0,0)
Emphasis on speed building techniques. May be repeated for a maximum of three credits.

COT 108 Speedwriting Shorthand I 3 (3,0,0,0)

COT 109B Speedwriting Shorthand II 3 (3,0,0,0)
Dictation and transcription for speed development. Reinforcement of theory through extensive repetitive use of common words, phrases, and shortcuts. Spelling and punctuation emphasis for mailable letters.

COT 127B Microsoft Office for Offices 3 (3,0,0,0)
Includes the beginning features of Word, Excel, Access, and PowerPoint, the main programs in Microsoft Office. Emphasis on crediting and editing office documents.

COT 129B Records Management 3 (3,0,0,0)
Introduction to filing principles and rules, equipment and supplies, filing systems (alphabetic, numeric, etc.), records disposition, correspondence control, information retrieval, and records storage.

COT 132B Outlook for Offices 1 (1,0,0,0)
Explores the features of the Microsoft Office Outlook program including Outlook e-mail, address books, distribution lists, calendar, Outlook Security, and setting up meetings.
COT 200  Word Processing I  3 (3,0,0,0)
Includes creating, formatting, and revising documents using the basic features of a word processing program. Focuses on proofreading and using a reference manual for grammar, format, and style. Students should be able to type 40 wpm.

COT 201B  Word Processing II  3 (3,0,0,0)
Includes creating, formatting, and revising documents using the intermediate features of a word processing program. Focuses on proofreading and document preparation.
Prerequisites: COT 102 and COT 200.

COT 205B  Pads & Tabs – Office on the Go  3 (3,0,0,0)
Introduction to an Apple iPad or similar device (provided in class). Current office applications, Internet, communication, contact/calendar, and remote access will be covered.

COT 208B  Tablet Computer, Voice and Handwriting  1 (1,0,0,0)
Includes the basics of a Tablet computer, voice recognition and handwriting recognition, and creation and edition of documents and emails.

COT 209B  Tablet Computer, Voice and Handwriting II  3 (3,0,0,0)
Covers more about Tablet computers and their capabilities, techniques, and shortcuts. Improve voice and handwriting recognition skills to create and edit documents and emails and perform Internet tasks. Use other current programs for note taking and reminders.

COT 213B  Business Professionalism  1 (1,0,0,0)
A capstone course that includes creating and editing text by using a computer keyboard, voice recognition, or handwriting recognition in a word processing program. Review and edit document content using critical thinking skills.
Prerequisites: BUS 106B and COT 102 and COT 127B and COT 200 and COT 201B.

Counseling and Personal Development

CPD 116  Substance Abuse: Fundamental Facts and Insights  3 (3,0,0,0)
Overview of how involvement with alcohol, tobacco and other drugs can affect health, personal and social development. Related social, philosophical, cultural, prevention and treatment issues.

CPD 117  Introduction to Counseling  3 (3,0,0,0)
Provides students with interviewing and basic counseling skills. Discusses confidentiality and ethics. Includes experiential role play.

CPD 120  Treatment Planning and Case Management  2 (2,0,0,0)
Provides working knowledge of intake, assessment, planning, implementation, evaluation, and proper documentation of various mental health and other community services, including legal and confidentiality requirements.
Prerequisite: CPD 117; or MHDD 109; or PSY 102.

CPD 121  Gambling Addiction  3 (3,0,0,0)
Provides knowledge of gambling addiction. Covers signs and symptoms, historical, cultural and economic perspectives, and treatment.
Prerequisite: PSY 101 or CPD 116.

CPD 133  Small Group Interaction – Group Counseling  3 (3,0,0,0)
Provides fundamental knowledge of group dynamics and observation/application of group counseling skills.
Prerequisite: CPD 117 or PSY 102.

CPD 134  Women and Substance Abuse Treatment Issues  3 (3,0,0,0)
Provides working knowledge of issues in counseling addicted women. Covers signs and symptoms, historical perspectives, cultural attitudes, family issues, pregnancy, drug affected children and treatment approaches.

CPD 201  Crisis Communication Skills  3 (3,0,0,0)
Overview of the types, stages, and interventions involved in crisis situations. Emphasis is on situational assessment, appropriate interventions, communication/counseling skills, and referral/follow-up services for persons in crisis.

CPD 217  Advanced Counseling Techniques for Substance Abuse  3 (3,0,0,0)
Comprehensive overview of counseling philosophies, concepts, theories and practical treatment approaches appropriate for the substance abuser.
Prerequisites: PSY 101 and CPD 117.

CPD 218  Family Counseling Issues in Substance Abuse  3 (3,0,0,0)
Provides knowledge for identifying and assessing substance abuse appropriate for family counseling. Theoretical and practical approaches to family counseling.
Prerequisites: PSY 101 and CPD 117.

CPD 220  Dual Diagnosis  3 (3,0,0,0)
Provides working knowledge of the assessment and treatment of patients with a coexisting mental illness and substance abuse disorder.
Prerequisite: PSY 101 or CPD 116.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hours Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPD 230</td>
<td>Addiction and Trauma</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>Provides knowledge of the interrelationship between addiction and trauma. Covers diagnostic criteria and includes experiential role-play and practice in counseling skills.</td>
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<tr>
<td>CPD 254</td>
<td>Bio-Psycho/Social Factors in Addiction</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>Theories of alcohol and other drug addictions with emphasis on the signs and symptoms of problematic use as well as methods of assessment and intervention.</td>
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<td></td>
<td>Prerequisite: CPD 116.</td>
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<tr>
<td>CPD 255</td>
<td>Developmental Theories and Prevention/ Education Strategies</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<td></td>
<td>The impact of addiction on development in children and families, perinatal addiction and fetal alcohol syndrome, and current prevention and education models and services.</td>
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<td></td>
<td>Prerequisite: CPD 254.</td>
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<tr>
<td>CPD 290</td>
<td>Internship in Counseling</td>
<td>1</td>
<td>(0,0,1,0)</td>
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<td></td>
<td>Supervised counseling work experience with selected community agencies. Up to eight semester hour credits may be earned on the basis of 100 hours of internship for one credit. May be repeated up to eight credits.</td>
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<td></td>
<td>Prerequisite: CSN Addiction Program Director approval.</td>
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<tr>
<td>CPD 291</td>
<td>Substance Abuse Counseling Practicum I</td>
<td>3</td>
<td>(0,0,0,12)</td>
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<td></td>
<td>Substance abuse counseling work experience in a selected community agency. The student works 12 hours per week under agency supervision in the final year. If taken earlier, permission is required by CSN Addiction Program Director.</td>
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<tr>
<td></td>
<td>Prerequisite: CPD 290 or CSN Addiction Program Director approval.</td>
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<tr>
<td>CPD 292</td>
<td>Substance Abuse Counseling Practicum II</td>
<td>3</td>
<td>(0,0,0,12)</td>
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<td></td>
<td>Further supervised substance abuse counseling work experience in a selected community agency. The student works 12 hours per week under agency supervision in the final semester.</td>
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<td></td>
<td>Prerequisites: CPD 290 and CPD 291 or CSN Addiction Program Director approval.</td>
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<tr>
<td>CPE 100</td>
<td>Digital Logic Design I</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<td></td>
<td>Logic gates. Simplification of Boolean functions. Design and testing of combinational and sequential circuits including code converters, multiplexers, adders, and synchronous counters.</td>
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<td></td>
<td>Prerequisites: MATH 127 with a grade of C or higher; or MATH 128 with a grade of C or higher; or MATH 181 or above with a grade of C or higher; or SAT math score of 630 or higher; or ACT math score of 28 or higher.</td>
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<tr>
<td>CPE 100L</td>
<td>Digital Logic Design I Laboratory</td>
<td>1</td>
<td>(0,3,0,0)</td>
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<td></td>
<td>This laboratory course covers the following experiments: a) Basic logic gates, Boolean algebra and logic simplifications; b) combinational logic circuits and their applications, flip-flops and related devices; c) MSI circuits including multiplexers, decoders; d) binary adders, and asynchronous and synchronous counters.</td>
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<td></td>
<td>Prerequisite: CPE 100 (may be taken before or at the same time as CPE 100L).</td>
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<tr>
<td>CPE 200</td>
<td>Computer Logic Design II</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<td></td>
<td>This course is the second half of one-year course to study digital logic design. It covers a) sequential logic, synchronous and asynchronous circuits, hazards; b) PAL/PLA based logic implementation; c) introduction to computers, instruction set architecture; d) computer arithmetic, assembly language.</td>
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<td>Prerequisite: CPE 100.</td>
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<tr>
<td>CPE 200L</td>
<td>Computer Logic Design II Laboratory</td>
<td>1</td>
<td>(0,3,0,0)</td>
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<td></td>
<td>This laboratory course covers a) design and testing of combinational and sequential logic circuits; b) synchronous and asynchronous counters, races, cycles, and hazards, with timing considerations; c) design programmable logic devices (PLD), simple arithmetic logic unit; d) assembly language and arithmetic logic unit simulation.</td>
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<td>Corequisite: CPE 200.</td>
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**Criminal Justice**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hours Distribution</th>
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</thead>
<tbody>
<tr>
<td>CRJ 103</td>
<td>Communication Within the Criminal Justice Field</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>Prepares the student to be able to communicate within the criminal justice field by introducing him/her to the five basic communication skills: report writing, non-verbal communication, basic public speaking, interviewing and interrogating skills, and courtroom testimony.</td>
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<tr>
<td>CRJ 104</td>
<td>Introduction to Administration of Justice</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<td></td>
<td>This course is designed to introduce students to the American criminal justice system. This includes the development and components of the system in addition to the procedures that ensure due process. This course is the foundation of the formal study of criminal justice.</td>
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<tr>
<td>CRJ 106</td>
<td>Introduction to Corrections</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<td></td>
<td>Survey of correctional science. Historical development; current concepts and practice; explanations of criminal behavior; functions and objectives of the criminal justice system concerned with institutional probation, and parole processes as they modify the offender’s behavior; survey of professional career opportunities in public and private agencies.</td>
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<td></td>
<td>Prerequisite: CRJ 104.</td>
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</tbody>
</table>
CRJ 107  Introduction to Ethics in Criminal Justice  3 (3,0,0,0)
This course provides a study of ethical thoughts and issues facing the criminal justice professional. Topics include constitutional ethics and professional code of conduct in theory and in practice.
Prerequisite: CRJ 104.

CRJ 108  Introduction to Homeland Security  3 (3,0,0,0)
This course will introduce students to the vocabulary and important components of Homeland Security. Students will discuss the importance of the agencies associated with Homeland Security and their interrelated duties and relationships. This course will examine historical events that impact Homeland Security. It will also explore state, national, and international laws impacting Homeland Security. It will examine the most critical threats confronting Homeland Security.

CRJ 110B  Introduction to Nevada Law Enforcement  3 (3,0,0,0)
This course provides a systematic approach to examination of criminal justice in the State and in particular Southern Nevada. It will also include an overview of the major subsystems: police, prosecution, defense, courts, corrections and juvenile justice. This course is designed for students who will be attending the Law Enforcement Training Academy.

CRJ 111B  Firearms I  3 (2,2,0,0)
Laws of arrest, search and seizure. Moral and ethical aspects of the use of deadly force. Firearm handling, safety, range nomenclature, marksmanship and qualification.

CRJ 113B  911 Communications Specialist I  3 (3,0,0,0)
This course will provide the student with the basic skills needed for a career as an Emergency 911 Communications Specialist. Students will learn history, terms and codes, and liability issues associated with 911 telecommunicators. Additionally, students will learn classification and prioritization of crimes/calls, various calls screening methods for 911 and 311, conflict resolution and listening skills. Meets Nevada Post Standards.

CRJ 114B  911 Communications Specialist II  2 (1,2,0,0)
Continuation of CRJ 111B. Advanced range qualification, precision marksmanship, defensive measures, counter ambush procedures, combat shooting, robbery in progress, building searches and shotgun use.
Prerequisite: CRJ 111B.

CRJ 120  Community Relations  3 (3,0,0,0)
This course provides an understanding of the positive and negative relationships between criminal justice professionals and various members of the community.
Prerequisite: CRJ 104.

CRJ 130  Survey of Criminal Law  3 (3,0,0,0)
An introduction to criminal law, its common law origins, basic concepts and applications in legal proceedings.
Prerequisite: CRJ 104.

CRJ 140  Elements of Supervision  3 (3,0,0,0)
An introduction to supervisory roles in criminal justice agencies, selection process for supervisors, models for decision making and leadership styles.
Prerequisite: CRJ 104.

CRJ 145  Transportation and Border Security  3 (3,0,0,0)
This course provides an in-depth view of modern border and transportation security. Specific topics include security for seaports, ships, aircraft, trains, trucks, pipelines, buses, etc. This course focuses on the technology needed to detect terrorists and their weapons as well as includes discussion on legal, economic, political, and cultural aspects of the problem.
Prerequisite: CRJ 108 or EMA 101.

CRJ 155  Juvenile Justice System  3 (3,0,0,0)
An analysis of the causes and extent of delinquent behavior; techniques addressing juvenile offenders and victims; prevention and repression of delinquency; organization of community resources for juvenile offenders including juvenile law, court, and correctional procedures.
Prerequisite: CRJ 104.

CRJ 160  Business Continuity and Resilience  3 (3,0,0,0)
This course provides instruction in the importance of an effective Continuity of Operations Plan/Program (COOP). The course will provide fundamental understanding of continuity of operations, terms, objectives, and benefits to private business and public agencies. The course will emphasize the importance of having a plan which provides for a rapid and efficient return to business after an emergency.
Prerequisite: CRJ 108 or EMA 101.

CRJ 161  Crime Scene Investigation  3 (3,0,0,0)
This course will provide the fundamentals of modern crime scene investigation including procedures and skills in securing, searching and investigating a crime scene, behavior at the crime scene, and the collection and preservation of evidence. The student will also learn how to prepare a report for use in court proceedings.
Prerequisite: CRJ 104.

CRJ 162  Investigative Photography I  3 (3,0,0,0)
This course will provide the fundamentals of documenting crime scenes, evidence, and people through photographic processes. An elementary knowledge of photography is required.
Prerequisite: CRJ 104.
CRJ 163 Investigative Photography II  3 (3,0,0,0)
A course covering advanced investigative photography techniques and the use of digital photography.
Prerequisite: CRJ 162.

CRJ 164 Introduction to Criminal Investigation  3 (3,0,0,0)
Fundamentals of investigation; techniques of crime scene search and recording; collection and preservation of physical evidence; modus operandi processes; sources of information; interviews and interrogations; preliminary and follow-up investigations.
Prerequisite: CRJ 104.

CRJ 165 Criminalistic Science  3 (3,0,0,0)
Evidence collection and preservation, scientific analysis, laboratory procedures and techniques to ensure chain of custody.
Prerequisite: CRJ 104.

CRJ 167B Preliminary Investigation for Police Recruits  3 (3,0,0,0)
This course will provide the basic skills needed to do effective police preliminary criminal investigations. The emphasis will be on learning proper techniques as a first responder to a crime scene, how to secure a crime scene and controlling the scene including determining if a crime occurred, rendering aid to the injured, arresting suspects and securing witnesses.
Prerequisite: CRJ 104.

CRJ 170B Physical Training for Law Enforcement  1 (0,2,0,0)
Post pretest. Physical training relevant to a law enforcement profession to prepare for the final physical training test.

CRJ 210B Community Policing in Southern Nevada  3 (3,0,0,0)
This course provides an introduction into the community policing models of Southern Nevada. It will also include an overview of the history, definition, evaluation and proactive policing concepts as applied to the various groups of citizens served by law enforcement agencies. This course is designed for students who will be attending the Law Enforcement Training Academy.

CRJ 213B 911 Communications Specialist II  3 (3,0,0,0)
This course will provide the student with the necessary skills for entry and promotions as 911 Communications Specialist. The course will provide advanced skills in radio dispatching procedures, critical incident stress management, homeland security, verbal judo and hands-on experience through simulation of job functions. This course meets Nevada Post standards. Student must be at least 18 years old with no criminal records.
Prerequisite: CRJ 113B.

CRJ 214 Principles of Police Patrol Techniques  3 (3,0,0,0)
An examination of the mission, operations and issues in police patrol. Report writing skills, techniques of observation, hazard recognition, non emergency calls.
Prerequisite: CRJ 104.

CRJ 215 Probation and Parole  3 (3,0,0,0)
This course will provide an overview of the probation and parole systems in the United States. The emphasis will be on the theories related to effective probation and parole policies, the procedures related to probation and parole, and the skills necessary to be an effective probation or parole officer.
Prerequisite: CRJ 104.

CRJ 216B Police Patrol Tactics  3 (3,0,0,0)
This course will provide a basic understanding of police patrol techniques. Various methods and procedures used including tactics for routine patrol, responding for calls for service, citizen contact, and how to handle suspects. Students will understand legal requirements.

CRJ 219B Emergency Vehicle Operation and Control  3 (1,4,0,0)
Shuffle steering, steering motion dynamics and vehicle braking (lock-wheel, ABS, impending). Pursuit driving times (vehicle timing) and techniques. Measurement of hearing and tunnel vision.

CRJ 221B Criminal Procedures for Law Enforcement  3 (3,0,0,0)
This course will provide an understanding of the laws, court decisions and legal procedures for the law enforcement officer. Students will learn the legal framework necessary for law enforcement officers to conduct their duties legally.

CRJ 225 Criminal Evidence  3 (3,0,0,0)
A study of evidence rules and procedural laws affecting criminal evidence. Overview of the appeal process with particular attention to recent U.S. Supreme Court Decisions.
Prerequisite: CRJ 104.
CRJ 229B  Defensive Tactics  3  (1,4,0,0)
Protection against persons armed with dangerous and/or deadly weapons. Demonstration and drill in a number of holds, come alongs, restraints and baton use.

CRJ 233  Nevada Criminal Law  3  (3,0,0,0)
To familiarize the CRJ student with Nevada Criminal Law as set forth in the Nevada Revised Statutes and as interpreted and tested in cases before the Nevada Courts.
Prerequisite: CRJ 104.

CRJ 235  Legal Method and Process  3  (3,0,0,0)
Federal and local judicial systems, analysis and synthesis of judicial opinions, the methods of interpretation of statutes, and the role of the courts in conflict resolution.
Prerequisite: CRJ 104.

CRJ 251  Principles of Correctional Administration  3  (3,0,0,0)
This class provides an overview of management and operations of correctional facilities.
Prerequisite: CRJ 104.

CRJ 261  Intelligence Analysis and Security Management  3  (3,0,0,0)
This course examines intelligence analysis and its indispensable relationship to the security management of terrorist attacks, man-made disasters and natural disasters. It also explores vulnerabilities of our national defense and private sectors, as well as the threats posed to these institutions by terrorists, man-made disasters, and natural disasters. Students will discuss substantive issues regarding intelligence support of homeland security measures implemented by the United States and explore how the intelligence community operates.
Prerequisite: CRJ 108 or EMA 101.

CRJ 270  Introduction to Criminology  3  (3,0,0,0)
This course introduces theories that attempt to explain criminal behavior. The role of criminological theory and its impact on public policy in the effort to reduce crime is explored.
Prerequisite: CRJ 104.

CRJ 286  Sexual Abuse of Children  3  (3,0,0,0)
This course focuses on the complex issues associated with the sexual abuse of children. Emphasis will be on the definition of crimes against children, typology of offenders and victims, sex registration laws, and the roles of criminal justice agencies.

CRJ 288  Second Year Capstone in Criminal Justice  3  (3,0,0,0)
This course provides a capstone experience in the field of criminal justice, and provides preparation for advanced academic experiences or professional careers in criminal justice.
Prerequisites: CRJ 104 and Department approval.

CRJ 290  Internship in Criminal Justice  3  (0,0,0,9)
Career related field experience working directly with criminal justice or social services agencies. Note: Application process must be completed one (1) semester prior to starting the internship.
Prerequisites: CRJ 104 and successful completion of 18 units of criminal justice credits and instructor approval

Cardiorespiratory Sciences

CRS 111  Introductory Concepts of Cardiorespiratory Sciences  3  (3,0,0,0)
Presents an overview of health care delivery system and cardiorespiratory professional structures. Basic CRS care modalities are emphasized in context of clinical practice guidelines, therapist-driven protocols, and critical pathways.
Prerequisite: Admission to AAS CRS program.

CRS 112  Introductory Concepts of Cardiorespiratory Equipment  1  (0,4,0,0)
Emphasizes skill development of non-critical cardiorespiratory care treatment modalities. Equipment application and operation theory presented in context of guidelines, protocols, and pathways.
Corequisite: CRS 111.

CRS 115  Clinical Practicum I  4  (0,0,16,0)
Introduces the non-critically ill cardiorespiratory patient in the clinical setting. Emphasizes hospital decorum, professionalism, equipment theory and application, guidelines, protocols and pathways.
Corequisite: CRS 111.

CRS 121  Advanced Concepts of Cardiorespiratory Sciences  3  (3,0,0,0)
Introduces acute (critical) cardiorespiratory care emphasizing all aspects of mechanical ventilation and patient monitoring. Critical thinking skills will be further developed through simulated cardiorespiratory care plans.
Prerequisite: CRS 115.

CRS 122  Advanced Concepts of Cardiorespiratory Equipment  1  (0,4,0,0)
Emphasizes skill development of critical cardiorespiratory care treatment modalities. Mechanical ventilation, physiological monitoring, and other application and operation theory presented in context of guidelines, protocols and pathways.
Corequisite: CRS 121.
CRS 123  Applied Cardiorespiratory Assessment  3 (3,0,0,0)
 Presents cardiopulmonary disease assessment, including chest physical exam, chest x-ray, and physiological monitoring. Case studies will assist respiratory care plan development based on guidelines, protocols and pathways.
 Corequisite: CRS 121.

CRS 124  Cardiorespiratory Pharmacology  3 (3,0,0,0)
 Presents a pharmacological basis of cardiorespiratory interventions. Additionally, integrates this knowledge with aerosol, intramuscular, and intravenous medication administration techniques.
 Corequisite: CRS 123. Prerequisite: CRS 115.

CRS 125  Clinical Practicum II  4 (0,0,16,0)
 Introduces the critically ill cardiorespiratory patient in the clinical setting. Emphasis on mechanical ventilation, physiological monitoring and other advanced therapeutic modalities.
 Corequisite: CRS 121.

CRS 135  Clinical Practicum III  3 (2,0,3,0)
 Structured preparation for the Certified Cardiographic Technician Examination (Cardiovascular Credentialing International) and Advanced Cardiac Life Support; includes EKG interpretation and supportive clinical experience.
 Prerequisite: Admission to AAS CRS program.

CRS 211  Neonatal and Pediatric Cardiorespiratory Care  3 (3,0,0,0)
 Emphasizes cardiorespiratory pathophysiology of the pediatric/neonatal patient. Introduction and advanced pediatric/neonatal concepts developed in context of clinical practice guidelines, therapist driven protocols and critical pathways.
 Prerequisite: CRS 125.

CRS 212  Neonatal and Pediatric Cardiorespiratory Equipment 1 (0,4,0,0)
 Emphasizes skill development of neonatal/pediatric cardiorespiratory care. Equipment application and operation theory of mechanical ventilation and physiological monitoring presented.
 Corequisite: CRS 211.

CRS 213  Cardiorespiratory Diagnostics  3 (3,0,0,0)
 Presents theoretical aspects of the cardiorespiratory diagnostic procedures, Holter recording, echocardiography, pulmonary function testing, stress testing, and basic polysomnography. Emphasizes application of acquired data to care plans.
 Corequisite: CRS 211.

CRS 214  Cardiorespiratory Diagnostics Equipment 1 (0,4,0,0)
 Introduces skill development of non-invasive cardiorespiratory diagnostics. Equipment application and operation theory presented in context of care plan expectations.
 Corequisite: CRS 213.

CRS 215  Clinical Practicum IV  4 (0,0,16,0)
 Emphasizes student exposure to multiple cardiorespiratory diagnostic laboratories. Rotations include non-invasive cardiorespiratory function, basic polysomnography and critical care. Continued application of guidelines, protocols and pathways.
 Corequisite: CRS 211.

CRS 221  Continuity of Cardiorespiratory Care  3 (3,0,0,0)
 Presents cardiorespiratory care needs of chronically ill, discharge planning, care management, patient education, alternative care sites, and home care. Psychological issues of geriatric care are discussed.
 Prerequisite: CRS 215.

CRS 222  Seminar for Success  1 (1,0,0,0)
 Prepares student with a process and content review of the NBRC credentialing examinations. Successful passage of NBRC self assessment examination required.
 Corequisite: CRS 221.

CRS 225  Clinical Practicum V  4 (0,0,16,0)
 Corequisite: CRS 221.

CRS 312  Cardiorespiratory Leadership Dynamics  3 (3,0,0,0)
 Prepares the student to be a department and community leader. Focus on techniques relevant to staffing, budgetary needs, inventory control, biomedical services, contractual processing and negotiations, ease and rental agreements.
 Prerequisite: Admission to BAS CRS program.

CRS 313  Education and Mentoring in the Cardiorespiratory Setting  3 (3,0,0,0)
 Prepares students to educate all populations from hospital inpatients, outpatients, hospital employees, and students in both the didactic and clinical settings.
 Prerequisite: Admission to BAS CRS program.
COURSE DESCRIPTIONS

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CRS 315  Clinical Practicum VI  4  (0,0,16,0)
An advanced clinical practicum for the working Respiratory Therapist. Focus is individualized for each student.
Corequisite: CRS 312.

CRS 322  Research and Evidence-Based Practice  3  (3,0,0,0)
An introduction to evidence-based practice and respiratory care research. Overview of research methodology, statistical analyses, ethical considerations, critical evaluation of peer-reviewed literature, systems change theories, and quality improvement.
Prerequisite: Admission to BAS CRS program.

CRS 412  Long-Term and Palliative Survey of Cardiorespiratory Care  3  (3,0,0,0)
Topics pertinent to long-term care facilities including ethics, care, rehabilitation, reimbursement, family interaction, psychology of long-term illness (both patient and family). Palliative care, hospice philosophy, end-of-life topics.
Prerequisite: Admission to BAS CRS program.

CRS 421  Essentials of Sleep  3  (3,0,0,0)
Emphasizes skill development in polysomnography. Introduction to sleep disorders, including monitoring techniques and instrumentation. Documentation of laboratory experience is required. Optional concentration on polysomnography in CRS 422 and CRS 425 as Corequisite will prepare student for the NBRC Sleep Diagnostic Specialist exam.
Prerequisite: Admission to BAS CRS program.

CRS 422  Special Project in Cardiorespiratory Sciences  1  (0,0,0,3)
Students select area of desired specialty. Specialty must match area of desired clinical concentration in CRS 425. Development of faculty-guided research article, poster presentation, or community advocacy project required.
Prerequisite: CRS 312 and CRS 313 and CRS 322.
Corequisite: CRS 425.

CRS 425  Clinical Practicum VII  4  (0,0,16,0)
Students may select area of clinical specialization which may prepare them for a national certification. Specialty areas include polysomnography, asthma/COPD, simulation, teaching practicum, adult critical care, neonatal or pediatric intensive care, pulmonary diagnostics, or point-of-care.
Corequisite: CRS 422.

Computer Science

CS 135  Computer Science I  3  (3,1,0,0)
This course is intended for students in computer science or engineering majors. It covers: a) Program development in a complex operating environment; b) Problem-solving methods and algorithm development in a high-level programming language; c) Program design, coding, debugging, and documentation using techniques of a good programming style.
Prerequisite: MATH 127 or MATH 128.

CS 202  Computer Science II  3  (3,0,0,0)
This course is the continuation of CS 135. It covers: a) Data structures and algorithms for manipulating linked lists; b) String and file processing; c) Recursion. Software engineering, structured programming and testing, especially larger programs are also covered in this course.
Prerequisite: CS 135.

Cisco

CSCO 105B  Fundamentals of Voice and Data Cabling  3  (2,2,0,0)
This course will provide the student academic knowledge and experience relating to the physical aspects of voice and data networks. Training will be given on how to identify cable types; design, install, and troubleshoot cabling plants. Training is in a hands-on, group oriented lab environment that will stress documentation, design, installation issues, and on the job safety. Successful students will be prepared to complete the BICSI Installer Level 2c certification exam.

CSCO 120  CCNA Internetworking Fundamentals  4  (3,2,0,0)
This is a networking fundamentals course that introduces students to the architecture, structure, functions, components, and models of the Internet and other computer networks. It uses the OSI and TCP layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced.
Prerequisite: CIT 112B.

CSCO 121  CCNA Routing and Switching Essentials  4  (3,2,0,0)
This course describes the architecture, components, and operations of routers in a small network. Students learn how to configure a router and a switch for basic functionality. Students will configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANSs, and inter-VLAN routing in both IPv4 and IPv6 networks.
Prerequisite: CSCO 120.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCO 130B</td>
<td>Fundamentals of Wireless LANs</td>
<td>3</td>
<td>(2,2,0,0)</td>
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<td>An intensive introduction to wireless LANs which focuses on the design, planning, implementation, operation and troubleshooting of wireless LANs. This hands-on lab-oriented course stresses documentation, design, and installation issues, as well as lab safety, on-the-job safety, and working effectively in a group environment. This course will help prepare students for the Cisco wireless LAN Support Specialist Designation.</td>
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<td>Prerequisite: CSCO 121.</td>
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<tr>
<td>CSCO 205B</td>
<td>Fiber Optic Cabling</td>
<td>1-4</td>
<td>(0-3,0-2,0,0)</td>
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<td></td>
<td>Intermediate Cabling course on Fiber Optics system concepts, design, installation, and troubleshooting. Covered items include cable splicing, terminating and installing optical fiber cable, field terminology and using test equipment. This course can be repeated for up to a total of 4 credits.</td>
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<td>Prerequisite: CSCO 121.</td>
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<tr>
<td>CSCO 220</td>
<td>CCNA Scaling Networks</td>
<td>4</td>
<td>(3,2,0,0)</td>
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<td>This course describes the architecture, components, and operations of routers in a larger and more complex network. Students learn how to configure routers and switches for advanced functionality. Students will configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network.</td>
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<td></td>
<td>Prerequisite: CSCO 121.</td>
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<tr>
<td>CSCO 221</td>
<td>CCNA WAN Fundamentals</td>
<td>4</td>
<td>(3,2,0,0)</td>
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<td>This is one of four courses that applies toward the preparation for a CCNA certification. It explains the principles of traffic control and access control lists (ACLs) and provides an overview of the services and protocols at the data link layer for wide-area access. Students learn how to implement and configure WAN protocols. WAN security concepts, tunneling, and VPN basics are also introduced.</td>
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<td>Prerequisite: CSCO 220.</td>
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<tr>
<td>CSCO 230B</td>
<td>Fundamentals of Network Security</td>
<td>4</td>
<td>(3,2,0,0)</td>
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<td>The Fundamentals of Network Security course is designed to prepare students for certification in this field (Cisco and CompTIA security exams). The course teaches students to design and implement security solutions to reduce the risk of revenue loss and vulnerability. This course combines hands-on experience, instructor-led lectures, and a Web based curriculum for students. The course is an introduction to network security and overall security processes. This course prepares the student for successful completion of the Cisco CCNA Security certification exam. Students taking this course are assumed to have already obtained, through coursework or industry experience, the knowledge required to pass the Cisco CCNA exam.</td>
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<td>Prerequisite: CSCO 121.</td>
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<tr>
<td>CSCO 280</td>
<td>CCNP ROUTE</td>
<td>4</td>
<td>(3,2,0,0)</td>
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<td>The CCNP ROUTE course prepares students with the knowledge and skills necessary to use advanced IP addressing and routing in implementing scalability for Cisco ISR routers connected to LANs and WANs. The course is recommended preparation for the CISCO CCNP Certification Exam, ROUTE.</td>
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<td>Prerequisite: CSCO 221 or CCNA certification.</td>
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<tr>
<td>CSCO 281</td>
<td>CCNP Implementing Secure Converged Wide Area Networks</td>
<td>4</td>
<td>(3,2,0,0)</td>
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<td>This course prepares students with the knowledge and skills necessary to secure and expand the reach of an enterprise network to teleworkers and remote sites with focus on securing remote access and VPN client configuration. The course covers topics on the Cisco hierarchical network model as it pertains to the WAN, teleworker configuration and access, frame mode MPLS, site-to-site IPSEC VPN, Cisco EZVPN, strategies used to mitigate network attacks, Cisco device hardening and IOS firewall features. This course is recommended preparation for the Implementing Secure Converged Wide Area Networks exam required to become a Cisco Certified Network Professional (CCNP).</td>
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<td>Prerequisite: CSCO 221 or CCNA certification.</td>
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<tr>
<td>CSCO 282</td>
<td>CCNP Multilayer Switching</td>
<td>4</td>
<td>(3,2,0,0)</td>
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<td>This course prepares students with the knowledge and skills necessary to implement scalable multilayer switched networks. This course includes topics on Campus Networks, describing and implementing advanced Spanning Tree concepts, VLANs and Inter-VLAN routing, High Availability, Wireless Client Access, Access Layer Voice concepts, and minimizing service Loss and Data Theft in a Campus Network. This course is recommended preparation for the Multi-layer Switching exam required to become a Cisco Certified Network Professional (CCNP).</td>
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<td>Prerequisite: CSCO 221 or CCNA certification.</td>
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<tr>
<td>CSCO 283</td>
<td>CCNP Optimizing Converged Internetworks</td>
<td>4</td>
<td>(3,2,0,0)</td>
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<td>This course prepares students with the knowledge and skills necessary in optimizing and providing effective QoS techniques for converged networks. The course topics include implementing a VoIP network, implementing QoS on converged networks, specific IP QoS mechanisms for implementing the DiffServ QoS model, AutoQoS, wireless security and basic wireless management. This course is recommended preparation for the Optimizing Converged Cisco Networks exam required to become a Cisco Certified Network Professional (CCNP).</td>
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<td>Prerequisite: CSCO 221 or CCNA certification.</td>
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<tr>
<td>CSCO 284B</td>
<td>CCNP TSHOOT</td>
<td>4</td>
<td>(3,2,0,0)</td>
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<td>This course prepares the student for the Cisco TSHOOT certification exam. It teaches students how to monitor and maintain complex, enterprise routed and switched IP networks. Skills learned include the planning and execution of regular network maintenance, as well as support and troubleshooting using technology-based processes and best practices, based on systematic and industry recognized approaches. Extensive labs emphasize hands-on learning and practice to reinforce troubleshooting techniques.</td>
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<td></td>
<td>Prerequisite: CSCO 221 or CCNA certification.</td>
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</table>
CSCO 480  CCNP ROUTE  4 (3,2,0,0)
This course prepares the student with the knowledge and skills necessary to use advanced IP addressing and routing in implementing scalability for routers connected to LANs and WANs. This course is recommended preparation for the CISCO CCNP Certification Exam, ROUTE.
Prerequisite: CSCO 221 or CCNA Certification.

CSCO 482  CCNP SWITCH  4 (3,2,0,0)
This course prepares the student with the knowledge and skills necessary to implement scalable multilayer switched networks. This course includes topics on Campus Networks, describing and implementing advanced Spanning Tree concepts, VLANs and Inter-VLAN routing, High Availability, Wireless Client Access, Access Layer Voice concepts, and minimizing service Loss and Data Theft in a Campus Network. This course is recommended preparation for the CISCO CCNP Certification Exam, SWITCH.
Prerequisite: CSCO 480 or Instructor approval.

CSCO 484  CCNP TSHOOT  4 (3,2,0,0)
This course teaches the student how to monitor and maintain complex, enterprise routed and switched IP networks. Skills learned include the planning and execution of regular network maintenance, as well as support and troubleshooting using technology-based processes and best practices, based on systematic and industry recognized approaches. Extensive labs emphasizes hands-on learning and practice to reinforce troubleshooting techniques. This course is recommended preparation for the CISCO CCNP Certification Exam, TSHOOT.
Prerequisites: CSCO 480 and CSCO 482.

Culinary Arts

CUL 100  Sanitation/HACCP  2 (2,0,0,0)

CUL 110  Basic Cookery  4 (2,4,0,0)
Introduction to culinary fundamentals, techniques and skills of modern cookery. Class covers procedures, ingredients and cooking theories.

CUL 115  Introduction to Butchery and Charcuterie  3 (2,3,0,0)
Students will learn proper receiving, inspection, and fabrication of meats, poultry, fish and shellfish. Basic techniques of smoking and force meat production will also be covered.
Prerequisites: CUL 110 and FAB 102.

CUL 125  Principles of Baking  3 (2,3,0,0)
This course will cover baking ingredients, use of equipment, proper storage and sanitation methods. Students will learn how to produce yeast products, pastries, pies, cookies and quick breads.
Prerequisite: CUL 110 with C- or higher; and FAB 102.

CUL 130  Garde Manger  3 (2,3,0,0)
Fundamentals of pantry with proper techniques and procedures in egg cookery, hot and cold sandwiches, lunch and dinner salads and dressings, basic garnishes, canapés and hot and cold appetizer production.
Prerequisites: CUL 110 and FAB 102.

CUL 135  Breads of the World  3 (2,3,0,0)
Students will learn measuring methods and scaling techniques, proper handling of yeast doughs, specialty doughs, different batters, and laminated doughs.
Prerequisite: CUL 110 with C- or higher; and FAB 102.

CUL 140  Catering Operations  3 (2,3,0,0)
This course teaches students how to plan and execute various types of catered events. The course will include planning, pricing, organization and preparation of the event. This includes planning and production of foods from assorted cuisines. Both front and back of the house operations will be covered.
Prerequisites: CUL 110 and FAB 102.

CUL 175  Cake Design  3 (2,3,0,0)
Students will learn basic mixing techniques, ingredients, measuring and scaling. Instruction includes production of icings, fillings, specialty cakes, and cake decorating.
Prerequisites: CUL 125 and FAB 102.

CUL 200  Aromatics/Restaurant Experience  4 (2,4,0,0)
Students will learn basic history and use of herbs and spices. They will learn how to enhance foods through proper usage. This class includes participation in actual restaurant operations.
Prerequisites: CUL 110 and FAB 102 both with a grade of C- or higher.

CUL 215  Plated Desserts  3 (2,3,0,0)
Introduction to hot, cold, and frozen desserts. Students will learn how to make ice creams, sorbets, and parfaits. This course will cover chocolate decorations and the creation of plate presentations using fresh fruits and dessert sauces.
Prerequisites: CUL 125 and FAB 102.

CUL 220  International Cuisine  4 (2,4,0,0)
Study of international foods with an emphasis on authentic ingredients and their proper usage. Participation in restaurant operations is included in this class.
Prerequisites: CUL 110 and CUL 200 and FAB 102.
CUL 225  Advanced Baking  3 (2,3,0,0)
This course will cover advanced and specialty breads, brioche and
coffee cakes. Students will also learn how to make puff dough
pastrys, quiches, custards, and ice cream and sorbets.
Prerequisites: CUL 125 and FAB 102.

CUL 230  Pastry Arts  3 (2,3,0,0)
Course study will include European Pastries. Emphasis will be
placed on ingredients, techniques, measuring, sealing, assembly
and storage.
Prerequisites: CUL 125 and FAB 102.

CUL 235  Advanced Garde Manger  3 (2,3,0,0)
Preparation techniques for force meats, mousses, galantines,
terrines and pates. Perform cheese, salt, tallow and ice sculpting.
Discuss hot and cold food competition guidelines.
Prerequisites: CUL 130 and FAB 102.

CUL 240  French Cuisine  4 (2,4,0,0)
Culinary fundamentals of classical cuisines are practiced in a
weekly preparation of gourmet menus in a restaurant setting. Special
emphasis is placed on proper cooking techniques.
Prerequisites: CUL 110 and CUL 200 and FAB 102 each with a
grade of C- or higher.

CUL 250  Saucier  3 (2,3,0,0)
Basic sauce concepts and technical guidelines to produce high
quality sauces. Covers stocks, thickening agents, reductions, liai-
sions, purees, mother sauces and compound derivations.
Prerequisites: CUL 110 and CUL 200 and FAB 102.

CUL 255B  Retail Bakery Management  3 (2,3,0,0)
This course introduces students to the application of baking and
pastry arts production techniques in a wholesale and/or retail
setting. The student is introduced to the theory regarding proper
techniques for marketing and merchandising baked goods. Cost
control for bakeries as well as recipe standardization and conver-
sion, production planning, purchasing, costing and price for profit
will be looked at. It will also feature the theory and practice of
pastry buffet planning including themes and presentations.
Prerequisites: CUL 125 and FAB 102.

CUL 260  Introduction to Chocolate  3 (2,3,0,0)
This course will cover the use of tempered chocolate for dipping,
molding, and decorating. Students will learn to develop creative
skills using chocolate. This course also covers techniques in pip-
ing, modeling, cutouts and curls.
Prerequisites: FAB 102 and CUL 125 both with a minimum grade
of C-

CUL 265  Introduction to Sugar Arts  3 (2,3,0,0)
This course will cover the fundamentals of the art of pulled sugar
including product identification, proper production techniques,
and proper usage. Students will learn to create pulled sugar pieces,
bloomed sugar pieces and poured pieces. They will also learn to use
them in the design and production of centerpieces.
Prerequisites: CUL 125 and FAB 102 both with a grade of C- or
higher.

CUL 270  Ice Carving  1 (1,1,0,0)
A basic class devoted to developing the skills necessary to plan
and produce functional and decorative Ice Sculptures. The class
covers the safe use of hand and power tools as well as methods and
procedures for transport and display.

CUL 275  Advanced Cake Design  3 (2,3,0,0)
This course covers advanced techniques in cake decorating. Stu-
dents will learn how to make advanced icings such as fondant and
royal icing, and how to assemble and decorate advanced specialty
and wedding cakes.
Prerequisite: CUL 175.

CUL 280B  Principles of
Quantity Baking  3 (2,3,0,0)
This course will emphasize fundamental baking and pastry pro-
duction techniques used in wholesale and/or retail bakeries. The
student will participate in the production of scratch baking and
commercial product usage. Group practice skills in team building
and communication will be covered. American and European style
pastry products will be featured. Baker’s percentages and conver-
sion will be emphasized.
Prerequisites: CUL 125 and FAB 102.

CUL 285B  Advanced Chocolate  3 (2,3,0,0)
The various methods for tempering and the different types of
chocolate will be reviewed. Students will learn advanced molding,
shaping and texturing techniques. Creating an advanced showpiece
will also be covered.
Prerequisites: CUL 260 and FAB 102.

CUL 290  Culinary Competition  3 (2,4,0,0)
Covers both category A and B for food shows based on the Amer-
ican Culinary Federation guidelines. Student may choose either
category for the practical hands-on.
Prerequisite: FAB 102.
CUL 295  Work Experience in Culinary Arts 1 (0,0,0,1)
In addition to the academic requirements, the Department of Hospitality Management requires 200 hours of acceptable employment in the hospitality industry. This work experience will be measured qualitatively as well as quantitatively. The work experience requirement should be met during the school year or in summers. Students who plan to transfer to UNLV will be able to transfer a maximum of 500 hours of employment toward UNLV’s 1000-hour employment requirement. International students must go to the office of International Student Services to verify employment eligibility and obtain authorization. This course can be repeated up to a maximum of four credits. Grade will be given upon verification of employment.

Dental Assisting

DA 106B  Radiation Protection for Dental Auxiliaries 1 (1,0,0,0)
Course designed to acquaint the participant with radiation hazards and protection services for patient and operator.

DA 107B  Intraoral Radiographic Technique 2 (1,2,0,0)
Production of dental radiographs including processing, mounting and eliminating errors. Participants will expose, mount and critique a complete radiographic survey of a mannequin and selected patients.

DA 108B  Introduction to Dental Assisting 2 (2,0,0,0)
Overview of the dental occupations, dental terminology, dental history, interpersonal relationships and employment requirements.
Prerequisite: Admission to the Dental Assisting Program.
Corequisite: DA 115B, 118B, and 124B.

DA 115B  Dental Health Education 1 (1,0,0,0)
Principles of preventive dentistry to include: nutritional physiology, essentials and counseling effect of nutrition on dental health; epidemiology, etiology and prevention of dental disease; design and management of a plaque control program and additional preventive measures, i.e., fluoride and sealant utilization.
Prerequisite: Admission to the Dental Assisting Program.
Corequisite: DA 108B, 118B, and 124B.

DA 118B  Dental Materials for Dental Assistants 3 (2,3,0,0)
Composition, characteristics, physical properties and uses of materials commonly used in dental practice. Includes laboratory practice in manipulating dental materials.
Prerequisite: Admission to the Dental Assisting Program.
Co-requisite: DA 108B, 115B, and 124B.

DA 119B  Dental Chairside Procedures 4 (2,8,0,0)
Development of the dexterity needed to assist in four- and six-handed dentistry, demonstrating proper posture and form at chairside. Positive communication, sterilization, disinfection, and neatness are stressed, plus knowledge of instruments, dental operative procedures, manipulation of cements, bases and impression materials.
Prerequisite: DA 108B, 115B, 118B, and 124B with a grade of C or higher. Co-requisite: DA 123B and DA 128B.

DA 120B  Introduction to Dental Insurance 1 (1,0,0,0)
Introduction to dental insurance processing including alternative payment plans. Introduction to CDT coding.

DA 123B  Practice Management and Procedures 3 (3,0,0,0)
Principles of dental office routine, reception duties, bookkeeping, appointment control, correspondence, telephone technique, filing, interview techniques, and computer applications.
Prerequisite: DA 108B, 115B, 118B, and 124B with a grade of C or higher. Co-requisite: DA 119B and DA 128B.

DA 124B  Integrated Science for Dental Assistants 4 (4,0,0,0)
Anatomy and physiology of the body systems, with special emphasis on the head and neck. Embryology, histology and tooth morphology are included.
Prerequisite: Admission to the Dental Assisting Program.
Corequisite: DA 108B, 115B, and 118B.

DA 126B  Clinical Externship 6 (1,0,0,20)
Supervised clinical dental assisting experience in selected private dental practices and public clinics.
Prerequisite: DA 119B, 123B, and 128B with a grade of C or higher. Co-requisite: DA 136B.

DA 128B  Dental Radiology 3 (2,3,0,0)
An introduction to basic concepts of radiology, including radiation protection, intraoral and panoramic techniques of film exposure, processing and mounting.
Prerequisite: DA 108B, 115B, 118B and 124B each with a grade of C or higher. Corequisite: DA 119 and DA 123.

DA 136B  Dental Specialties 3 (3,0,0,0)
A survey of the role of the dental assistant in the specialties of dentistry including orthodontics, pedodontics, oral surgery, periodontics, endodontics, and prosthetics.
Prerequisite: DA 119B, 123B, and 128B each with a grade of C or higher. Co-requisite: DA 126B.
DA 299B  Independent Study  1-5 (1-5,0,0,0)
Selected topics of interest to dental assisting students.

Dance

DAN 101  Dance Appreciation  3 (3,0,0,0)
A multicultural exploration of the world’s first and most universal art form. Ballet history, sex and social dance, the politics of dance and twentieth century self-expression among others are investigated through lecture, video and demonstration.

DAN 108  Pilates I  1 (1,0,0,0)
Pilates based floor work emphasizing increased flexibility and strength with application to dancers and non-dancers alike. This course may be repeated to a maximum of four credits.

DAN 115  Middle Eastern Dance I  1 (1,2.5,0,0)
Learn to isolate and undulate gracefully to Middle Eastern music. Explore the ancient arts of belly dance and the people throughout history who have contributed to its evolution. This course may repeated to a maximum of four credits.

DAN 119  Swing Dance  1 (1,2.5,0,0)
Further development of swing dance styles introduced in beginning ballroom dance. This course may be repeated to a maximum of four credits.

DAN 125  Ballroom Dance (Beginning)  1 (1,2.5,0,0)
Instruction in the major ballroom dances, including waltz, swing, fox trot, tango, rumba, and the cha-cha. This course may be repeated to a maximum of four credits.

DAN 126  Ballroom Dance (Beginning/Intermediate)  1 (1,2.5,0,0)
Continuation of beginning ballroom dance. This course may be repeated to a maximum of four credits.

DAN 128  Latin Dance  1 (1,2.5,0,0)
Further development of Latin dances introduced in beginning ballroom dance. This course may be repeated to a maximum of four credits.

DAN 132  Jazz Dance (Beginning)  1 (1,2.5,0,0)
Beginning techniques of jazz dance. This course may be repeated to a maximum of four credits.

DAN 133  Jazz Dance (Beginning/Intermediate)  1 (1,2.5,0,0)
Continuation of beginning jazz dance. This course may be repeated to a maximum of four credits.

DAN 135  Ballet (Beginning)  1 (1,2.5,0,0)
Beginning techniques and theory of classical ballet. This course may be repeated to a maximum of four credits.

DAN 136  Ballet (Beginning/Intermediate)  1 (1,2.5,0,0)
Continuation of beginning ballet with more demanding concepts and skills. This course may be repeated to maximum of four credits.

DAN 137  Modern Dance (Beginning)  1 (1,2.5,0,0)
Introductory technique and theory of modern concert dance. This course may be repeated up to a maximum of four credits.

DAN 139  Modern Dance (Beginning/Intermediate)  1 (1,2.5,0,0)
Continuation of Modern Dance (Beginning). This course may be repeated to a maximum of four credits.

DAN 144  Tap Dance (Beginning)  1 (1,2.5,0,0)
Beginning techniques of tap dancing. This course may be repeated to a maximum of four credits.

DAN 145  Tap Dance (Beginning/Intermediate)  1 (1,2.5,0,0)
Continuation of beginning tap dance. This course may be repeated to a maximum of four credits.

DAN 146  Musical Dance Theater  1 (1,0,0,0)
An historical overview of dance in musical theater. Includes a study of styles of major choreographers.

DAN 160B  Hip Hop Dance  1 (1,2.5,0,0)
Beginning level Hip Hop. Previous experience in dance not necessary. Offers foundation for dance by putting into practice basic techniques for Hip Hop. Particular emphasis on student’s physical awareness, expressiveness, and grasp of material. This course may be repeated to a maximum of four credits.

DAN 175  Yoga for Dancers  1 (1,2.5,0,0)
Yoga techniques of stretching and breathing applied to the dancer’s instrument with resultant stress relief, increased flexibility, and enhanced physical alignment. This course may be repeated to a maximum of four credits.

DAN 188  Dance Improvisation  2 (2,1.5,0,0)
Development of performance and compositional skills through the exploration and analysis of basic dance elements including time, shape, space, motion and dynamics.
DAN 215  Middle Eastern Dance II  1 (1,2.5,0,0)
A continuation of learning to isolate and undulate gracefully to Middle Eastern music. A further exploration of the ancient arts of belly dance and the people throughout history who have contributed to its evolution. Course will build on the fundamentals of Middle Eastern dance technique. This course may be repeated to a maximum of four credits.

DAN 225  Ballroom Dance  (Intermediate)  1 (1,2.5,0,0)
Intermediate techniques of ballroom dance. This course may be repeated to a maximum of four credits.

DAN 232  Jazz Dance (Intermediate)  1 (1,2.5,0,0)
Intermediate techniques of jazz dance. This course may be repeated to a maximum of four credits.

DAN 235  Ballet (Intermediate)  1 (1,2.5,0,0)
Intermediate technique and theory of classical ballet. This course may be repeated to a maximum of four credits.

DAN 236  Ballet  (Intermediate/Advanced)  1 (1,2.5,0,0)
A continuation of Ballet (Intermediate). This course may be repeated to a maximum of four credits.

DAN 238  Modern Dance  (Intermediate)  1 (1,2.5,0,0)
Intermediate technique and theory of modern concert dance. This course may be repeated to a maximum of four credits.

DAN 239  Modern Dance  (Intermediate/Advanced)  1 (1,2.5,0,0)
Continuation of Modern Dance (Intermediate). This course may be repeated to a maximum of four credits.

DAN 244  Tap Dance (Intermediate)  1 (1,2.5,0,0)
Intermediate techniques of tap dance. This course may be repeated to a maximum of four credits.

DAN 245  Repertory Tap Dance  1 (1,2.5,0,0)
Learning of tap repertory and new choreography leading to performance opportunities. This course may be repeated to a maximum of four credits.

DAN 284  Dance Project  1 (0,3,0,0)
Complete production of a dance piece including choreography, sound score selection, costume design, and all production aspects to result in performance of the piece in the CSN Student Dance Concert. Restricted to Dance Certificate of Achievement candidates. This course may be repeated to a maximum of four credits.

DAN 287  Concert Dance Company  1 (1,2.5,0,0)
Professionally structured rehearsals of repertory and new choreography in preparation for formal performances, educational outreach programs and possible touring. Students should also be registered for a combination of technique courses: DAN 138 and DAN 235, or DAN 136 and DAN 238, or DAN 235 and DAN 238. Class size for DAN 287 is limited and audition will be the first day of class.

DAN 288  Choreography  2 (2,1.5,0,0)
Introduction to the art of making dances with emphasis on the manipulation of time, shape, space, motion and dynamics.
DH 107  Legal and Ethical Implications in Dental Hygiene  2  (2,0,0,0)
Introduction to professional, legal, and ethical concepts in Dental Hygiene.
Prerequisite: Admission to the A.S. Dental Hygiene program.

DH 110  Concepts of Oral Health  2  (1,3,0,0)
Basic concepts of oral health care, adjunctive aids and foundation of preventive strategies. Introduction to product evaluation, disease process, needs assessment, behavior modification, learning principles, deposits, stains and fluoride.
Prerequisite: Admission to the A.S. Dental Hygiene program.

DH 112  Oral Radiology  3  (2,3,0,0)
A study of the theory of radiology, the techniques of film exposure, processing, mounting and interpretation. Radiation dosage and hazards as well as protection mechanisms for patient and operator are stressed.
Prerequisite: Admission to the AS Dental Hygiene program.

DH 115  Clinical Practice I  3  (0,0,10,2)
Practice in performing oral prophylaxis, sterilization, patient management, patient education, fluoride use, charting, inspection of teeth, patient scheduling and recare systems.
Prerequisites: DH 104 and DH 105.

DH 116B  Supervised Clinical Practice  1  (0,0,4,0)
This course is designed to provide continuity of clinical practice. The student will continue to improve clinical skills. May be repeated for a maximum of five credits.

DH 117  Periodontics I  2  (1,3,0,0)
Concepts and practice of advanced instrumentation, instrument sharpening, periodontal debridement, power scaling, chemotherapeutics and desensitizing agents, air-jet, sealant placement, soft tissue curettage, dental implants and lasers.
Prerequisite: DH 104 and Admission to the A.S. Dental Hygiene program.

DH 119  General and Oral Pathology for Dental Hygienists  2  (2,0,0,0)
The fundamentals of microscopic and gross pathology disease, repair, healing and regression. Special emphasis: diseases, developmental disturbances, infection, lesions, and injuries to the oral cavity.

DH 122  Nutritional Aspects in Dentistry  2  (2,0,0,0)
Introduction to principles of basic biochemistry and the relationship of nutrition to oral health. Application of nutritional education to dental hygiene practice: provide nutritional assessment.
Prerequisite: Admission to the A.S. Dental Hygiene program.

DH 202  Pharmacology  2  (2,0,0,0)
A study of drugs by groups with special emphasis on those used in dentistry including their physical and chemical properties, dosage and therapeutic effects.
Prerequisite: Admission to the AS Dental Hygiene program.

DH 203  Special Patients  2  (2,0,0,0)
Considerations in the treatment of patients with specific physical and mental challenges with a special emphasis on the management of the geriatric patient.

DH 208  Community Dental Health I  2  (2,0,0,0)
Functions of health care agencies, literature, epidemiology of dental diseases, community preventive measures, program planning, the geriatric population and dental health educational methods.
Prerequisite: Admission to the A.S. Dental Hygiene program.

DH 209  Pain and Anxiety Control  3  (2,0,3,0)
Administration of local anesthetics and nitrous oxide/oxygen analgesia. Pharmacological agents, physical and emotional evaluation of patients, anatomy and neurophysiology. Management of related medical emergencies.

DH 210  Clinical Dental Hygiene II  4  (0,0,14,2)
Clinical application of diagnostic, preventive, and therapeutic procedures utilized in patient care by a dental hygienist.
Prerequisite: DH 115.

DH 211  Dental Materials and Techniques for Dental Hygienists  2  (1,3,0,0)
Study of dental materials including physical and chemical properties, manipulation, utilization, and application in dental and dental hygiene procedures.

DH 212  Periodontic Principles II  2  (2,0,0,0)

DH 216  Principles of Dental Practice  1  (1,0,0,0)
Concepts of dental office management, productivity, marketing, interviewing and responsibilities of professionals.
Prerequisite: Admission to the A.S. Dental Hygiene program.

DH 217  Periodontics III  1  (1,0,0,0)
Advanced study of periodontology with special emphasis on new surgical modalities and equipment. Orientation to all aspects of periodontal practice.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH 219</td>
<td>Community Dental Health Field Experience</td>
<td>1</td>
<td>(0,0,4,0)</td>
<td>Prerequisite: DH 208.</td>
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<tr>
<td></td>
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<td>Prepares student to function as an effective oral health educator, practitioner, and resource person in public health settings.</td>
</tr>
<tr>
<td>DH 220</td>
<td>Clinical Dental Hygiene III</td>
<td>4</td>
<td>(0,0,14,2)</td>
<td>Prerequisite: DH 210.</td>
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<tr>
<td></td>
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<td></td>
<td>A continuation of Clinical Dental Hygiene II.</td>
</tr>
<tr>
<td>DH 296</td>
<td>Board Review</td>
<td>1</td>
<td>(1,0,0,0)</td>
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<td>Covers a review of topics in preparation for the Dental Hygiene National Board Examination.</td>
</tr>
<tr>
<td>DH 297B</td>
<td>Pain Management for the Dental Professional</td>
<td>3</td>
<td>(1,0,6,0)</td>
<td>Prerequisite: Program Director approval.</td>
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<tr>
<td></td>
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<td>Administration of local anesthetics and nitrous oxide analgesia. Pharmacologics, patient evaluation, anatomy and neurophysiology, management of medical emergencies.</td>
</tr>
<tr>
<td>DH 298B</td>
<td>Dental Hygiene Career Skills</td>
<td>2</td>
<td>(1,0,3,0)</td>
<td>Prerequisite: Program Director approval.</td>
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<tr>
<td></td>
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<td>Review of essential dental hygiene skills for clinical examination preparation or re-entry into the dental hygiene profession. Graded Pass/Fail.</td>
</tr>
<tr>
<td>DH 299B</td>
<td>Independent Study</td>
<td>1-5</td>
<td>(1-5,0,0,0)</td>
<td>Prerequisite: Instructor and Department Chair approval.</td>
</tr>
<tr>
<td></td>
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<td>Covers selected topics of interest to dental hygiene students including review for Dental Hygiene National Board Examination. Graded Pass/Fail.</td>
</tr>
<tr>
<td>DH 400</td>
<td>Leadership and Group Dynamics</td>
<td>2</td>
<td>(2,0,0,0)</td>
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<tr>
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<td>Students will develop skills in leadership, communication, and team building in preparation for taking on administrative roles within the dental profession.</td>
</tr>
<tr>
<td>DH 402</td>
<td>Public Health and Special Populations</td>
<td>2</td>
<td>(2,0,0,0)</td>
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<tr>
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<td>Historical and evolutionary concepts of public health. Exploration of social responsibility and population characteristics. A basic knowledge of working with special populations in Public Health.</td>
</tr>
<tr>
<td>DH 404</td>
<td>Research Methodology</td>
<td>2</td>
<td>(2,0,0,0)</td>
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<tr>
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<td>Fundamental and working knowledge of the scientific method employed in oral health research. Critical analysis of research. Utilization of scientific research and supporting evidence-based publications.</td>
</tr>
<tr>
<td>DH 406</td>
<td>Future Directions in Dental Hygiene</td>
<td>2</td>
<td>(2,0,0,0)</td>
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<tr>
<td></td>
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<td>Exploration of career options to facilitate selection of a specialization track. Emphasis placed on current literature and policies that affect the future of the dental hygiene profession. Critical analysis of existing dental practice acts.</td>
</tr>
<tr>
<td>DH 408</td>
<td>Introduction to Teaching Methodologies</td>
<td>2</td>
<td>(2,0,0,0)</td>
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<tr>
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<td>Introduction to the basic concepts of teaching. Includes teaching philosophies and methodologies. Emphasis on units of learning, learning objectives, and lesson plans.</td>
</tr>
<tr>
<td>DH 412</td>
<td>Dental Public Health Administration</td>
<td>2</td>
<td>(2,0,0,0)</td>
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<tr>
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<td>Foundational concepts of leadership skills as applied to oral health programs, program management, legal, financial and ethical considerations. Communication with the grant writing process is presented.</td>
</tr>
<tr>
<td>DH 418</td>
<td>Advanced Education Concepts</td>
<td>2</td>
<td>(2,0,0,0)</td>
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<td>Emphasis will be placed on curriculum planning and implementation. New classroom technology will be emphasized.</td>
</tr>
<tr>
<td>DH 422</td>
<td>Oral Epidemiology and Biostatistics</td>
<td>2</td>
<td>(2,0,0,0)</td>
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<tr>
<td></td>
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<td>Principles and methods of epidemiologic investigation and the use of classical statistical approaches to describe the oral health of populations.</td>
</tr>
<tr>
<td>DH 428</td>
<td>Clinical/Laboratory Teaching</td>
<td>2</td>
<td>(1,0,0,4)</td>
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<td>Provides students with knowledge and skills in clinical instruction. Psychomotor skill development, analysis and remediation of performance problems. Includes seminar and student teaching externship. Drug test required for externship.</td>
</tr>
<tr>
<td>DH 440</td>
<td>Capstone Seminar I</td>
<td>2</td>
<td>(2,0,0,0)</td>
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<td>Provides opportunity to develop and implement an action plan to solve a problem or meet the needs of a public health population.</td>
</tr>
</tbody>
</table>
|            |                                                  |       |       | Prerequisites: DH 400 and DH 402 and DH 404 and DH 406 and DH 408.
DH 442  Capstone Seminar II  2  (2,0,0,0)
Provides opportunity to develop and implement an action plan to
design a dental hygiene program course.
Prerequisites: DH 400 and DH 402 and DH 404 and DH 406 and
DH 408.

Diesel Technology

DT 104  Diesel Equipment Service  4 (1,6,0,0)
Preventive maintenance procedures of the major components of
heavy equipment, use of hand and power tools service manuals,
precision measurement, and equipment out of service standards.

DT 115  Diesel/Heavy Equipment
Electrical Systems  4 (1,6,0,0)
This course introduces electrical systems on modern trucks and
construction equipment. Theory of electricity and electronics, types
of electrical circuits, wiring, components and use of test equip-
ment are covered as well as diagnostics of batteries, starting and
charging systems.
Prerequisite: DT 104.

DT 117  Advanced Diesel/Heavy
Equipment Electronics  4 (1,6,0,0)
Advanced troubleshooting of AC and DC, electronic circuits, on
board computers, electronically controlled components including
convenience accessories and hydraulic controls. This course pre-
pares the student for the ASE T6 certification exam.
Prerequisite: DT 115 or Instructor approval.

DT 136  Diesel Engine Repair I  4 (1,6,0,0)
Students develop basic knowledge of design, construction and
operating principles of diesel engines. This course emphasizes ser-
vice, maintenance, diagnosis and repair of internal engine com-
ponents including lubrication and cooling systems.
Prerequisite: DT 104.

DT 138  Diesel Engine Repair II  4 (1,6,0,0)
Students study components, maintenance, diagnostics and repair of
modern diesel engines with a specific focus on intake, fuel deliv-
ery, and exhaust systems. This course prepares the student for the
ASE T2 certification exam.
Prerequisite: DT 136 or Instructor approval.

DT 145  Diesel Brake Systems  4 (1,6,0,0)
This course provides students with knowledge of medium and
heavy duty hydraulic and airbrake systems including study in com-
ponents, maintenance, diagnostics, and repair. This course prepares
the student for the ASE T4 certification exam.
Prerequisite: DT 115.

DT 150B  Diesel Hydraulics  4 (1,6,0,0)
Presents the theoretical basis for hydraulic circuitry in heavy
equipment. Attention is given to circuit components and how they
work on heavy diesel equipment. Assembly, disassembly, and trou-
bleshooting are emphasized.
Prerequisite: DT 104.

DT 155  Steering, Suspension
and Hydraulic
Directional Controls  4 (1,6,0,0)
Prepares the student with the knowledge and skills needed to
adjust, diagnose, service and repair mechanical and hydraulic
directional control, as well as suspension systems found on trucks
and construction equipment. This course prepares the student for
the ASE T5 certification exam.
Prerequisite: DT 104.

DT 165  Diesel/Heavy Equipment
Heating, Air Conditioning  4 (1,6,0,0)
This course covers theory, diagnostics, maintenance and service
of air conditioning equipment found on truck cabs and off-road
equipment. Emphasis is placed on diagnosis of various refriger-
ant systems while demonstrating knowledge and practice of EPA
compliance requirements.
Prerequisite: DT 115.

DT 205  Diesel/Heavy Equipment
Drive Train and Axles  4 (1,6,0,0)
This course includes the study of heavy truck chassis heavy duty
transmissions, drivelines, power dividers, differentials as well as
torque converters, torque dividers, power shift transmissions, plan-
etary and gear final drives, tracks, rollers and idlers. Emphasis is
placed on troubleshooting and service procedures required.
Prerequisite: DT 104.

DT 295  Internship Co-Op I  2  (0,0,0,10)
Cooperative education course, designed to provide the student with
on-the-job supervised and educationally directed work experience.
Each course except DT 295 will have a
Prerequisite of successful completion of the preceding Work Expe-
rience course.

DT 296  Internship Co-Op II  2  (0,0,0,10)
Cooperative education course, designed to provide the student with
on-the-job supervised and educationally directed work experience.
Each course except DT 295 will have a
Prerequisite of successful completion of the preceding Work Expe-
rience course.
DT 297 Internship Co-Op III 2 (0,0,10)
Cooperative education course, designed to provide the student with on-the-job supervised and educationally directed work experience. Each course except DT 295 will have a
Prerequisite of successful completion of the preceding Work Experience course.

Early Childhood Education

ECE 121 Parent Caregiver Relationships 1 (1,0,0,0)
A course designed for Early Childhood students in which they can acquire various communications skills to enhance parent/caregiver relationships.

ECE 122 Observation Skills 1 (1,0,0,0)
A course designed to expose parents and teachers to various formal and informal observation methods that will enhance their observation and recording skills.

ECE 123 Health and Nutrition for Young Children 1 (1,0,0,0)
Study includes nutrition, health, safety, infectious disease, first aid, and preventative measures for accidents and spread of diseases.

ECE 127 Role of Play for Infants and Toddlers 1 (1,0,0,0)
Emphasis on techniques and play materials for use in the home and child care setting which will foster the child’s total development from birth to 2 1/2 years.

ECE 130 Infancy 3 (3,0,0,0)
Study of social, emotional, language and sensorimotor development in infancy. Emphasis placed on skills and facilitating optimum infant development.

ECE 134 Guiding Infant/Toddlers 1 (1,0,0,0)
A guidance course based on knowledge of developmental levels coupled with realistic expectations for behavior. Emphasis on positive teaching and parenting approaches.

ECE 138 Step Families 1 (1,0,0,0)
A course for parents and teachers focusing on the unique dynamics of step families, and the special issues of adults and children living in them.

ECE 151 Math in the Preschool Curriculum 1 (1,0,0,0)
A study of mathematical development in young children. Emphasis on teaching techniques, materials and activities for supporting math development.

ECE 152 Science in the Preschool Curriculum 1 (1,0,0,0)
Study of young child’s emerging awareness of the biological and physical environment. Emphasis on supportive teaching techniques, materials and activities.

ECE 153 Language Development in the Preschool 1 (1,0,0,0)
Study of the development of language in preschool children. Exposure to activities and materials for fostering development of receptive and expressive language skills in the preschool.

ECE 154 Literature for Preschool Children 1 (1,0,0,0)
Brief survey of literature and poetry for use with preschool children. Techniques for integrating literature into the preschool curriculum will be examined.

ECE 155 Literacy and the Young Child 1 (1,0,0,0)
The development of learning activities and materials which augment and enhance the development of literacy skills in the young child.

ECE 156 Music in the Preschool Curriculum 1 (1,0,0,0)
Teaching techniques and music activities for young children. Focus on listening, singing, rhythm and creative movement.

ECE 157 Art in the Preschool Curriculum 1 (1,0,0,0)
A study of artistic/creative development. Emphasis on teaching techniques for supporting and enhancing artistic/creative development using a range of materials and activities.

ECE 158 Activities for Physical Development in Young Children 1 (1,0,0,0)
A study of teaching techniques, materials and activities for supporting and enhancing gross motor development with a focus on both patterned and creative movement.

ECE 159 After School Activities 1 (1,0,0,0)
Developing curriculum for the school-aged child in after school programs. Emphasis on appropriate teaching techniques, materials, activities and nutritious snacks.

ECE 162 Teaching the Two-Year Old 1 (1,0,0,0)
Study of the physical, cognitive, and social-emotional characteristics of two-year old children. Emphasis on choosing learning materials and equipment and on planning appropriate activities for two-year olds in music, art, physical education, math, science, language development, literature, and reading readiness.
ECE 163 The School Age Child 3 (3,0,0,0)
Study of the social, emotional, physical and cognitive development of the child from 6-12 years with emphasis on facilitation of optimum development.

ECE 200 The Exceptional Child 3 (3,0,0,0)
A survey of the characteristics and requirements of children (infancy through age 8) with special needs. Focus on the various exceptions, legislation affecting persons with special needs, and the impact of special needs upon the family and the individual.

ECE 202 Understanding Human Growth and Development 3 (3,0,0,0)
The class will provide a comprehensive introduction to the principles and basic concepts of child development. The course integrates the dimensions of physical, cognitive and psychosocial development into each major state of the child’s life – prenatal, infancy, preschool years, middle childhood and adolescence.

ECE 204 Principles of Child Guidance 3 (3,0,0,0)
A focus on support and enhancement of the child’s social/emotional development, social skills, and self-esteem through the use of positive guidance.

ECE 231 Preschool Practicum 3-4 (0,0,9-12)
A student teaching experience either on or off campus. Instructor approval required. Must be concurrently enrolled in ECE 245 Practicum Seminar.

ECE 232 Practicum: Infant and Toddler 3-4 (0-1,0,6-12)
A student teaching experience in an infant/toddler setting either on or off campus. Concurrent enrollment in ECE 245 MAY be required. Instructor approval.

ECE 233 Practicum in Early Childhood Special Education 3 (0,0,9)
A practical course focusing on the development of techniques, strategies and adaptations needed to implement the inclusion of pre-school children with special needs.

ECE 235 Adapting Curricula for Young Children with Special Needs 3 (3,0,0,0)
Course focuses on adapting typical early childhood curricula to meet the needs of infants, toddlers and preschoolers with special needs. Prerequisites: ECE 200 and ECE 251; or ECE 252.

ECE 238 Family and Community Relations 1 (1,0,0)
Requires participation in the Community College Early Childhood Education Lab. Class, conferences, discussion and community resources studied and applied to home and school needs. May repeat course once.

ECE 240 Administration of the Preschool 3 (3,0,0,0)
Principles and practices of preschool organization and administration; organizational structure, budgeting, personnel policies, record keeping, licensing regulations, safety, nutrition, and health issues.

ECE 241 Practicum for Teacher Aides 4 (0,0,16)
A teaching experience as an aide in an elementary classroom. Corequisites: ECE 245 and Department approval.

ECE 245 Practicum Seminar 2 (2,0,0,0)
A required seminar for students concurrently enrolled in ECE 231 or ECE 241. Instructor approval.

ECE 250 Introduction to Early Childhood Education 3 (3,0,0,0)
An introduction to early childhood education. A course which deals with the total program: types, objectives, philosophy, curriculum, physical plant and equipment as these aspects relate to needs and interests of adults and children involved in early childhood field.

ECE 251 Curriculum in Early Childhood Education 3 (3,0,0,0)
Study of curriculum models; developmental learning theories; and curriculum planning and implementation in early childhood programs. Prerequisite: ECE 250 with a grade of C- or higher.

ECE 252 Infant/Toddler Curriculum 3 (3,0,0,0)
Planning and implementing a curriculum for children age 0-2 1/2 years emphasizing physical, emotional, social and cognitive development through daily routines and planned activities.

ECE 254 Applied Child Guidance 3 (3,0,0,0)
A course focusing on the practical application of positive guidance methods and the concept of family systems. Prerequisite: ECE 204.

ECE 260 Children’s Literature 3 (3,0,0,0)
Survey of children’s literature and poetry for teachers and parents. Emphasis on developing literacy and strategies for integrating children’s literature into school and home environments.

ECE 273 Individual Child and Community 3 (3,0,0,0)
Study of the impact growing up in a changing world has on the development of children. Emphasis on the process of socialization.

ECE 274 Individual Child and Family 3 (3,0,0,0)
Study of diverse family systems and ways they evolve, nurture and socialize children to function in our diverse society. Explore strategies to interface with diverse families.
### ECE 285 Current Issues in Infancy 2 (2,0,0,0)
Study of the current trends and issues in infancy and their impact on working with infants.

### Economics

#### ECON 100 Introduction to Economics 3 (3,0,0,0)
This course is intended for students with no prior background in business or economics. It is study of basic macroeconomics, microeconomics, and international economics principles, as well as current global economic and social issues. The course introduces the student to basic economic concepts and applications emphasizing the economic way of thinking. The student will, therefore, relate principles such as scarcity, opportunity cost, and cost-benefit analyses to everyday real world economic situations.

#### ECON 102 Principles of Microeconomics 3 (3,0,0,0)
An examination of the price theory for product market models and consumer demand models with attention focused on the application of price theory in current economic issues.
Prerequisite: MATH 124.

#### ECON 103 Principles of Macroeconomics 3 (3,0,0,0)
A study of the determination of levels of national income, employment, prices and basic causes of fluctuation of these levels.
Prerequisite: MATH 124.

#### ECON 180 The Economics of Discrimination 3 (3,0,0,0)
The Discrimination of Economics investigates the economic causes, effects, and remedies of discrimination based on categories such as age, ethnicity, gender, religion, national origin, or sexuality. (Same as WMST 180.)

#### ECON 261 Principles of Statistics I 3 (3,0,0,0)
Introduction to descriptive statistics, probability and expectations, theoretical distributions, hypothesis testing and regression analysis. The emphasis is on use, application, and interpretation of statistical techniques.
Prerequisite: MATH 124.

#### ECON 262 Principles of Statistics II 3 (3,0,0,0)
Advanced statistical techniques, including multiple regression, the classical time series model, analysis of variance and non-parametric statistics.
Prerequisite: ECON 261 or Instructor approval.

#### ECON 274 Investment Economics 3 (3,0,0,0)
This course will explore the basic scientific paradigms and applications to micro-finance and investing. Topics will include individual securities, equity, fixed income, governments, global issues, bond funds, limited partnerships, options, futures, monetary market systems, real estate investing, microbanking, precious metals, antiques and collectables, micro-financial planning and many others.

#### ECON 275 Risk Management Economics 3 (3,0,0,0)
This is a course of study in the theory and practice of risk management and insurance economics. Topics include risk management typology and Cyber risk models/applications, wealth creation and conversation, estate planning science, life insurance market, health risk management, senior risk management, basic insurance ethics, federal and state insurance laws and codes and many others.

#### ECON 276 Internship in Financial Economics 3 (1,0,0,8)
Interactive participation with numerous financial institutions in applying practical financial and investment tools and policies toward the completion of a research financial and investment project.

#### ECON 295 Special Topics in Economics 1-3 (1-3,0,0,0)
Topics of current interest in applied economics and finance. This develops awareness of and appreciation for applied economics. May be repeated for a maximum of six credits.

#### ECON 320 Economics of Health and Health Care 3 (3,0,0,0)
Economics of health care sector including physician, allied health professional, hospital and insurance markets. Emphasis on the role of government, private sector, information and externalities in health care outcomes.
Prerequisites: ECON 102 or Instructor approval and Admission to Dental Hygiene Bachelor of Science Degree Program.

### Education

#### EDU 201 Introduction to Elementary Education 3 (3,0,0,0)
Introductory course in teacher education that examines the role of the elementary school teacher in today’s society; historical, philosophical, cultural, and social domains are investigated. Strategies for effective interpersonal communication are explored. Foundations for the practice of teaching are explored and practiced at an introductory level. Observation in a local elementary school is required.
EDU 202 Introduction to Secondary Education 3 (3,0,0,0)
Introduction to the historical and philosophical foundations, settings, problems, and issues related to contemporary secondary schooling and its complexities. Current issues and educational foundations (multicultural, social, and psychological) emphasized. Observation in a classroom is required.

EDU 203 Introduction to Special Education 3 (3,0,0,0)
This course provides an overview of special education. Focus is on characteristics of learners with disabilities and on the historical, social and legal foundations of special education. The course is designed for undergraduate students in special education, general education, nursing, counseling, psychology and related fields. Observation in a classroom is required.

EDU 207 Exploration of Children’s Literature 3 (3,0,0,0)
Survey of children’s literature genres. Censorship, historical background, children’s interests, literature programs and book evaluation.

EDU 210 Nevada School Law 2 (2,0,0,0)
This course is designed to acquaint prospective teachers with the legal aspects of the school setting.

EDU 214 Preparing Teachers to Use Technology 3 (3,0,0,0)
Overview of uses of computers in education, including the use of the computer as a teacher utility, the use of application programs, and the selection and use of educational software.

EDU 215 Substitute Teaching Essentials: Introduction 1 (1,0,0,0)
This course is designed to encourage students to consider substitute teaching. Focus will be on interviewing, first aid and CPR, communication, and code of ethics.

EDU 216 Substitute Teaching Essentials: Preparation and Planning 1 (1,0,0,0)
This course prepares the novice substitute teacher to become successful at planning, organizing and using skills and strategies that affect the classroom daily routine.

EDU 217 Substitute Teaching Essentials: School Procedures 1 (1,0,0,0)
This course is designed to give substitute teachers an insight on the best practices of the school environment and how to prepare and handle policies and procedures during the daily routine.

EDU 220 Principles of Educational Psychology 3 (3,0,0,0)
The psychology of learning, motivation, growth and development, personality, dynamics, and social adjustment.
Prerequisite: ECE 250 or EDU 201 or EDU 202 or EDU 203.

EDU 240 Introduction to Classroom Management 3 (3,0,0,0)
This course will provide an introduction to classroom management theories and techniques: building a classroom management system, producing responsible behavior, and maintaining positive classroom management.

EDU 270 Internet Research in Education 3 (3,0,0,0)
This course is designed to help students learn more about information resources available when conducting research in the field of education and other subjects; identifying and mastering appropriate Internet research tools (search engines, directories, databases, digital libraries, e-journals, bibliographies, encyclopedias); developing research strategies, and critically evaluating Internet information.

EDU 280 Valuing Cultural Diversity 3 (3,0,0,0)
Introduces preservice educators to microcultures which may include class, ethnicity, gender, exceptionalities, religion, language, and age. Culturally appropriate pedagogical practices, dimensions of multicultural education and educational implications of diversity emphasized.

EDU 295 Special Topics in Education 1-6 (1-6,0,0,0)
This course will provide content benefitting preservice teachers in preparation for the classroom and a career in education.

EDU 298 Introduction to Gifted Education 3 (3,0,0,0)
Study of educational programs for gifted children, including identification, characteristics, history, philosophy and programming options. Investigations on research, creativity, intelligence and special populations will also be covered.

EDU 299 Education Portfolio 1 (1,0,0,0)
Students will compile a final portfolio of artifacts from their CSN education coursework for use in education department program assessment and for supporting students in applying for undergraduate teacher education program and/or for future employment. The Education portfolio serves as the capstone for the CSN Elementary, Secondary, Special Education, and Early Childhood Education Emphasis AA Degrees.
Prerequisite: Instructor approval.

Electrical Engineering

EE 190 Electrical and Computer Engineering Freshman Design 1 (0,3,0,0)
This course is an introduction to history and overview, as well as design principle in electrical and computer engineering. It covers: a) working safety; professional ethics lectured by guest engineers from local industries; b) various branches of electrical and computer engineering lectures lectured by various professors; c) construction and test of various electrical circuits and computer system.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Units (Weeks, Hours, Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EE 220</strong></td>
<td>Circuits I</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>This course is an introduction to linear circuit analysis. It covers Kirchoff’s laws, node and loop analysis, Thevenin, Norton, and other circuit network theorems, operational amplifiers, first-order RL and RC circuits, second order RLC circuits. Corequisite: EE 220L.</td>
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<tr>
<td><strong>EE 220L</strong></td>
<td>Circuits I Discussion and Laboratory</td>
<td>1</td>
<td>(0,3,0,0)</td>
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<td></td>
<td>This discussion and laboratory course covers: 1) Introduction to PSpice, a simulation tool for electrical circuits, problem solving using PSpice 2) Multisim, schematic capture/simulation software, problem solving using Multisim, 3) Test equipment including power supplies, multimeters, function generator, and oscilloscopes. Prerequisites: EE 190 and MATH 182.</td>
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<tr>
<td><strong>EE 221</strong></td>
<td>Circuits II</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<td>EE 221 is the second semester of a one-year course to study electrical circuits. It covers a) sinusoidal steady state analysis by using phasors, sinusoidal steady state power; b) the Laplace transform and its applications to circuit analysis and network function; c) magnetically coupled circuits and transformers; d) circuit analysis in s-domain, and frequency response. Prerequisite: EE 220.</td>
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<tr>
<td><strong>EE 221L</strong></td>
<td>Circuits II Laboratory</td>
<td>1</td>
<td>(0,3,0,0)</td>
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<td></td>
<td>This laboratory course covers operation of general and special purpose electrical test equipment in AC circuit. Students will design, build, and test: 1) RL, DC and RLC circuits; 2) Transformer circuits to measure AC power; 3) Frequency response circuits. Computer simulation software PSpice and Multisim will also be used in this course. Corequisite: EE 221.</td>
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<tr>
<td><strong>EGG 125B</strong></td>
<td>Civil Survey Design</td>
<td>3</td>
<td>(2,2,0,0)</td>
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<td>Advanced subdivision, street and utility horizontal design and computations; basic map preparation; methods and procedures for construction surveying of civil-designed improvements.</td>
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<tr>
<td><strong>EGG 131</strong></td>
<td>Technical Physics I</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<td>This course is designed for students in technical areas to study physics. Numerical calculations are intensive. This is the first semester of a one-year course. It covers equilibrium, motion, dynamics, wave and fluid mechanics. Prerequisite: ET 111B or MATH 116 or above (except MATH 122 or MATH 123).</td>
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<tr>
<td><strong>EGG 131L</strong></td>
<td>Technical Physics I - Lab</td>
<td>1</td>
<td>(0,3,0,0)</td>
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<td></td>
<td>This course is for students that are taking or have taken EGG 131 Technical Physics I. Numerical calculations are intensive. Experiments in the course cover topics such as equilibrium, motion, dynamics, wave and fluid mechanics that are covered in the lecture course EGG 131. Suggested Prerequisite: EGG 131 (or concurrent enrollment in EGG 131).</td>
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<tr>
<td><strong>EGG 132</strong></td>
<td>Technical Physics II</td>
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<td>(3,0,0,0)</td>
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<td></td>
<td>Continuation of EGG 131. Covers thermodynamics, electricity, magnetism, basic AC/DC circuits, solid state physics, optics, and an introduction to modern physics. Prerequisite: EGG 131.</td>
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<tr>
<td><strong>EGG 206</strong></td>
<td>Engineering Mechanics I</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<td></td>
<td>Engineering analysis of concentrated and distributed force systems at equilibrium, analysis of structures, beams and cables, friction, virtual work, fluid statics, shear and moment diagrams. Prerequisite: MATH 181 or Instructor approval.</td>
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<tr>
<td><strong>EMA 101</strong></td>
<td>Principles of Emergency Management</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<td>This course introduces students to the fundamental aspects of emergency management. Students will learn the principles of emergency management and be able to work with the main emergency management issues. The course also describes how various emergency management services work together in a system of resources and capabilities. Prerequisite: CRJ 108 or EMA 101.</td>
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<tr>
<td><strong>EMA 102</strong></td>
<td>Disaster Mitigation and Preparedness</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<td>This course is designed to introduce students to the process and practice of emergency planning. The course covers a range of strategies and skills that planners require to achieve a successful planning process for dealing with disasters in future time, and those that must be considered when planning for implementing the emergency plan at the time of disaster impact. Prerequisite: CRJ 108 or EMA 101.</td>
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<tr>
<td><strong>EMA 120</strong></td>
<td>Emergency Operations Centers</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<td>This course provides information on how to determine the best location for an emergency operations center (EOC), and describes the factors that should be considered in choosing its physical design. It describes the most prevalent approaches to EOC functions and the reasons for using them in organizing an EOC. The course also stresses the importance of standard operating procedures (SOPs) in EOC operations, and the requirements for conducting exercises and evaluations of the EOC. Prerequisite: CRJ 108 or EMA 101.</td>
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EMA 130  Role and Scope of the Public Information Officer  3 (3,0,0,0)
This course provides students with the basic skills needed to perform public information duties as they relate to emergency management. It focuses on the definition of the job of the public information officer (PIO) as well as the skills needed for that position. The course also covers the Joint Information System element of the National Incident Management System.
Prerequisites: CRJ 108 or EMA 101; and COM 101.

EMA 140  Disaster Response and Recovery  3 (3,0,0,0)
This course introduces the basic concepts of disaster response and recovery. Concepts include the roles and responsibilities of emergency management stakeholders. Describes how roles and responsibilities differ in response versus recovery.
Prerequisite: CRJ 108 or EMA 101.

EMA 220  Emergency Simulations and Exercises  3 (3,0,0,0)
This course provides students with the knowledge and skills to develop and conduct disaster exercises that can be used to test emergency operations plans and operational response capabilities of organizations, businesses and communities. The course also addresses and satisfies the National Exercise and Evaluation Program criteria.
Prerequisite: CRJ 108 or EMA 101.

EMA 230  Incident Command System (ICS) and National Incident Management System (NIMS)  3 (3,0,0,0)
The Incident Command System (ICS) National Training Curriculum covers introductory (overview, orientation and basics), intermediate and advanced elements of the National Incident Management System (NIMS). This course provides ICS management tools for all levels of users.
Prerequisite: CRJ 108 or EMA 101.

EMA 250  Terrorism Response Planning  3 (3,0,0,0)
This course identifies policies and procedures for the emergency management administrator and staff. It evaluates Emergency Operations Plans (EOPs) as well as other government entities. The EMA manager will learn about hard and soft targets in his/her jurisdiction.
Prerequisite: CRJ 108 or EMA 101.

Emergency Medical Services

EMS 108B  Emergency Medical Technician Training  8 (7,3,5,0,0)
Basic emergency medical training in trauma and medical patient assessment, airway management, fracture and wound care, basic pharmacology and semiautomatic external defibrillation. Course satisfies local fire department testing
Prerequisite. Healthcare Provider CPR card, current immunizations, background check, drug screen and health insurance required. Corequisite: EMS 150B.

EMS 110B  Secondary EMS Instructor  2 (2,0,0,0)
A 24-hour course for experienced providers that presents introductory concepts, resources, and skills to effectively deliver quality EMS education. Includes essential instructor knowledge, such as: psychology of learning, classroom management, legal issues, and evaluation practices.
Prerequisites: Currently certified as an AEMT or Paramedic with at least two (2) years of full-time or five (5) years of volunteer/part time EMS experience, or EMS Program Director approval.

EMS 112B  Primary EMS Instructor  1 (1,0,0,0)
A 16-hour course for experienced instructors that provides the fundamental knowledge essential to being a Primary EMS Instructor. Content will focus on the educational processes, and learning theories and practice. It will provide practical experience in teaching strategies and facilitation techniques. Approaches to assessment and evaluation using observation, practice and reflection are presented.
Prerequisite: Currently certified as a Secondary EMS Instructor at any provider level, or EMS Program Director approval.

EMS 115B  Advanced Emergency Medical Technician  7 (6,3,0,0)
Instructs in the roles and responsibilities for the Advanced EMT. Skills include, but are not limited to patient assessment skills, intravenous therapy, advanced airway management, basic electrophysiology, radio communications, and pharmacology for the Advanced EMT. Current certification as an EMT, current immunizations, background check, drug screen and health insurance required.
Corequisite: EMS 116B.

EMS 116B  AEMT Clinical Practice  1 (0,0,7,0)
Field training for the Advanced EMT student. Will involve in-hospital rotations, field ambulance training, and community service. Graded Pass/Fail. Corequisite: EMS 115B.
Prerequisites: Current certification as an EMT, current immunizations, background check, drug screen and health insurance required.
EMS 117B  Clinical Practicum  1  (0,0,4,0)
Supervised application of EMT Intermediate skills in the field and/or hospital setting. Emphasis will be on patient assessment, EKG interpretation, pharmacology applications, advanced and basic airway management.
Prerequisites: Current enrollment or acceptance in the CSN Paramedic program. Current certification as an Intermediate EMT, current immunizations, health insurance required.

EMS 125B  Pharmacology for Paramedics  3  (3,0,0,0)
A fundamental course in pharmacology for the prehospital health provider. Areas of emphasis are the pharmacodynamics and pharmacokinetics of drug therapy, roles and responsibilities of drug administration and dosage calculations. Covers common drug classifications found in the prehospital setting.
Prerequisite: Current enrollment in CSN Paramedic training.

EMS 127B  Paramedic Clinical Practice I  2  (0,0,16,0)
Supervised application in a hospital and prehospital setting of the skills learned in aggregate Paramedic training. Emphasis will be on patient assessment, recognition and management of medical and trauma emergencies. Graded Pass/Fail.
Prerequisite: Current enrollment in CSN Paramedic training.

EMS 129B  Paramedic Fundamentals  3  (2,3,0,0)
Basic aspects of patient assessment, airway management, communications, medical and legal considerations, and the moral and ethical aspects of prehospital emergency care.
Prerequisite: Current enrollment in CSN Paramedic training.

EMS 130B  Paramedic Assessment I  1  (0,3,0,0)
This course will develop introductory patient assessment and history taking skills necessary for further progression through the Paramedic program. Students shall build upon previously learned skills acquired within the EMT and/or AEMT coursework, while implementing ECG monitoring and pharmacological interventions as learned in other classes.
Prerequisite: Current enrollment in CSN Paramedic program.

EMS 145B  Essentials of Paramedic Medicine  3  (3,0,0,0)
Course will allow the participant to apply the information gained from previous course work. Basic aspects of EMS systems, patient assessment skills, documentation, advanced airway procedures, and special circumstances such as assault and abuse, bioterrorism, and crime scene awareness will be addressed. This course will be tailored to advancing the students’ understanding of these subjects through both lecture and hands-on practice.
Prerequisite: Current enrollment in CSN Paramedic program.

EMS 150B  EMT Clinical Practice  1  (0,0,6,0)
This course places the EMT in the skill performance clinical arena. Areas of emphasis include, but are not limited to community service projects, Prehospital EMS Ride-a-Longs, Labor and Delivery rotations, In-hospital Emergency Department rotations, and Psychiatric observation rotations. Graded Pass/Fail.
Corequisite: EMS 108B

EMS 155B  Pathophysiology for Paramedics  3  (3,0,0,0)
A correlative approach to pathophysiology employing both physical assessment skills and a basic cellular understanding to the various disease entities and trauma processes.
Prerequisite: Current enrollment in CSN Paramedic training.

EMS 165B  Electrophysiology/Electrocardiography  3  (3,0,0,0)
Instructs in the anatomy and physiology of the conduction system of the heart, the electrical system and electrocardiography, abnormal EKG patterns and the recognition and management of dangerous or life-threatening dysrhythmias. Includes an introduction to 12-lead ECG interpretation.
Prerequisite: Current enrollment in CSN Paramedic program.

EMS 171B  Prehospital Trauma Life Support (PHTLS)  1  (0.75,0.5,0,0)
Instructs in the assessment and management of the critical trauma patient according to national PHTLS format. Course is ALS in format, but may be suitable for very experienced Intermediate level providers. Class is offered in seminar format over two days.
Prerequisite: Enrollment in CSN Paramedic training or Department approval.
EMS 172B  Vehicle Extrication for Paramedics  2 (1.75,0.5,0,0)
Vehicle extrication operations level is a participative course designed for prehospital care providers in NFPA 1670. Enhances and incorporates new knowledge and skills necessary to access, extricate, and care for victims of crash incidents. Provides knowledge in scene management and familiarization with local resources needed to mitigate incidents. Provides knowledge for competence at hazardous materials awareness level. Includes National Fire Academy ICS for EMS training.
Prerequisite: Enrollment in CSN Paramedic training.

EMS 173B  Paramedic Field Internship  3 (0,0,0,24-32)
Field internship allowing students to practice and apply advanced life support knowledge and skills. Each student will be a third person on a Paramedic rescue unit and will work directly with a Paramedic preceptor. Graded Pass/Fail.
Prerequisites: Completion of CSN Paramedic training to date, local provisional Paramedic Certificate, and six months of 911 transport experience.

EMS 176B  Pediatrics for Paramedics  4 (3,3,0,0)
Instructs in a comprehensive approach to the pediatric patient from birth to adolescence. Course will include AHA-Pediatric Advanced Life Support Curriculum (PALS).
Prerequisite: Current enrollment in CSN Paramedic program.

EMS 185B  Advanced Emergency Care  3 (3,0,0,0)
Instructs in the recognition and management of medical and traumatic emergencies, which includes advanced care for hemorrhage and shock, traumatic brain injuries, burns, thoracic and abdominal trauma, allergies and anaphylaxis, toxicology, and hazmat operations.
Prerequisite: Current enrollment in CSN Paramedic program.

EMS 190B  Emergency Medical Dispatch  3 (2,0,4,0)
Designed to perform emergency dispatch using the Emergency Priority Dispatch Systems. Students identify the correct chief complaint or incident type, prioritize response assignments, provide life-sustaining support, handle difficult callers and reduce the potential for life-threatening mistakes.

EMS 201B  Operations and Management in EMS  1 (1,0,0,0)
Includes EMS system planning, organizing, directing, quality control, financing, stress management, and interagency communications. Will also address current issues in EMS locally and nationally.
Prerequisite: Current EMT Paramedic certification or approval.

EMS 202B  Advanced ECG Interpretation  1 (1,0,0,0)
Introduction to 12 lead ECG interpretation. Topics will include intraventricular conduction delays, myocardial ischemia, injury, and infarction. Will also include pre-excitation syndrome, bundle branch blocks, ectopy, and advanced dysrhythmia interpretation. Course may be offered in seminar blocks as necessary.
Prerequisite: Current enrollment in CSN Paramedic program.

EMS 230B  Paramedic Assessment II  1 (0,3,0,0)
This course will allow the participant to apply the information gained from Pathophysiology, Electrophysiology, Pharmacology, Paramedic Fundamentals, Paramedic Technology, ACLS, PHTLS and the Pediatric course in a manner that emphasizes proper patient assessment, the development of a proper treatment plan and implementation of that plan. This course will be tailored to advancing the students understanding of all Paramedic subjects through practical skills scenarios in preparation for EMS 173B.
Prerequisites: Current enrollment in CSN Paramedic program and EMS 130B.

English

ENG 092  College Prep English I  5 (5,0,0,0)
Emphasis on college-level reading and writing. Practice in paragraph construction and the introduction to the complete essay. Review of grammar/punctuation skills and sentence structure. Guidance and instruction in integrating reading and writing skills.
Prerequisite: Current enrollment in CSN Paramedic training.

ENG 098  Preparatory Composition  3 (3,0,0,0)
Intensive reading and writing course focusing on college-level critical reading and essay writing strategies. This course was designed for students whose ACT or SAT scores indicate that they would benefit from an additional semester of English before beginning their college-level work.
Prerequisite: Current enrollment in CSN Paramedic program.

ENG 098  Preparatory Composition  3 (3,0,0,0)
Intensive reading and writing course focusing on college-level critical reading and essay writing strategies. This course was designed for students whose ACT or SAT scores indicate that they would benefit from an additional semester of English before beginning their college-level work.
Prerequisite: Current enrollment in CSN Paramedic program.

ENG 098  Preparatory Composition  3 (3,0,0,0)
Intensive reading and writing course focusing on college-level critical reading and essay writing strategies. This course was designed for students whose ACT or SAT scores indicate that they would benefit from an additional semester of English before beginning their college-level work.
Prerequisite: Current enrollment in CSN Paramedic program.

ENG 100  Composition Enhanced  5 (5,0,0,0)
A writing intensive course designed to strengthen college-level composition skills, with particular attention to audience, purpose, and context for writing focusing on the writing process and introducing research.
Prerequisite: English Placement Test or completion of ENG 98 with a grade of C- or higher or English Placement Test.

ENG 100  Composition Enhanced  5 (5,0,0,0)
A writing intensive course designed to strengthen college-level composition skills, with particular attention to audience, purpose, and context for writing focusing on the writing process and introducing research.
Prerequisite: English Placement Test or completion of ENG 98 with a grade of C- or higher or English Placement Test.

ENG 100  Composition Enhanced  5 (5,0,0,0)
A writing intensive course designed to strengthen college-level composition skills, with particular attention to audience, purpose, and context for writing focusing on the writing process and introducing research.
Prerequisite: English Placement Test or completion of ENG 98 with a grade of C- or higher or English Placement Test.
ENG 101  Composition I  3 (3,0,0,0)
ENG 101 is designed to strengthen college-level writing skills, with particular attention to audience, purpose, and rhetorical situation focusing on the writing process and introducing research.
Prerequisite: English Placement Test or completion of ENG 98 with a grade of C- or better or ESL 139 with a grade of C- or better; and Reading Accuplacer Test score of 86 or above or completion of READ 130 with a grade of C or better.

ENG 101H  Composition I – Honors  3 (3,0,0,0)
A writing intensive, Honors-level course designed to strengthen college-level composition skills, with particular attention to audience, purpose, and context for writing focusing on the writing process and introducing research. Limited class size ensures workshop environment.
Prerequisite: English Placement Test, reflecting placement in ENG 101 and Reading Placement Test reflecting reading placement in ENG 101 and admission to the Honors program or Instructor approval.

ENG 102  Composition II  3 (3,0,0,0)
ENG 102 is a continuation and extension of ENG 101 and equivalents with attention to analytical reading and writing, critical thinking, and research methodologies, while emphasizing interpretation, analysis, synthesis, and argument.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher.

ENG 102H  Composition II – Honors  3 (3,0,0,0)
An Honors-level version of ENG 102 Composition II, with a more in-depth focus on workshop and research techniques. Class will continue to emphasize rhetorical methodology, while deepening a student’s ability to read and write analytically, think critically, and interpret effectively.
Prerequisites: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher and admission to the Honors program.

ENG 107  Technical Communications I  3 (3,0,0,0)
Apply the techniques of the professional writing process to real world documents such as e-mails, business correspondence, proposals, reports, and websites.
Prerequisite: Placement into ENG 100 or ENG 101 or ENG 113 or ENG 098 or ESL 139 with a grade of C or higher.

ENG 113  Composition I for International Students  3 (3,0,0,0)
A writing intensive course designed to strengthen college-level composition skills, with particular attention to audience, purpose, and context for writing focusing on the writing process and introducing research.
Prerequisite: English Placement Test or completion of ENG 98 with a grade of C- or better or ESL 139 with a grade of C- or better; and Reading Accuplacer Test score of 86 or above or completion of READ 130 with a grade of C or better.

ENG 114  Composition II for International Students  3 (3,0,0,0)
Continuation and extension of ENG 113 and equivalents with attention to analytical reading and writing, critical thinking, and research methodologies, while emphasizing interpretation, analysis, synthesis and argument.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher.

ENG 181  Vocabulary and Meaning  2 (2,0,0,0)
Problems of meaning, word derivation and word formation are investigated with a view to enlarging and refining a working English vocabulary.

ENG 196  Internship  1-3 (0,0,0,50-150)
A supervised workshop experience in a business or organization. Can be repeated for a total of six credits.
Prerequisite: English major, and approval of the organization where the internship will be completed, and Internship Coordinator approval.

ENG 205  Introduction to Creative Writing: Fiction and Poetry  3 (3,0,0,0)
A course designed to give students writing experience, introduce them to marketable types of writing and sharpen their writing to commercially acceptable quality.
Prerequisite: ENG 100 or 101 or 101H or 113 with a grade of C- or better or Instructor approval or Department Chair approval.

ENG 211  Introduction to Linguistics  3 (3,0,0,0)
An introduction to the study of language from the perspective of Modern Linguistics. The class studies the formation of sounds, words, sentences, and meaning; as well as aspects of language variation and acquisition.

ENG 220  Writing Poetry  3 (3,0,0,0)
The study of poetry writing methods and forms with concentration on the student’s creative writing. This course can be repeated once for credit.
Prerequisite: ENG 205 or Instructor approval.

ENG 221  Writing Fiction  3 (3,0,0,0)
A course for learning the craft of fiction writing in a workshop setting with a goal of refining the creative process, implementing critical self-editing, and developing an understanding of the aesthetics of fiction as art. This course can be repeated once for credit.
Prerequisite: ENG 205 or Instructor approval.
ENG 223 Themes of Literature 3 (3,0,0,0)
Themes and ideas significant in literature. May be repeated for a maximum six credits.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 223H Themes of Literature – Honors 3 (3,0,0,0)
Themes and ideas significant in literature. Topics will be more intensive or covered in more depth than in the non-Honors version. May be repeated for a maximum six credits. Courses with “H” suffixes are designated Honors-level courses and can be used to fulfill equivalent general education requirements.
Prerequisites: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C or higher or Department Chair or Instructor approval and admission to Honors program.

ENG 224B Introduction to Screenwriting 3 (3,0,0,0)
The study of screenwriting methods and forms with a concentration on the student’s creative writing.

ENG 230 Writing Creative Non-Fiction 3 (3,0,0,0)
The study of creative non-fiction writing methods and the art of the personal essay with concentration on the student’s creative writing.
Prerequisite: ENG 205 or Instructor approval.

ENG 231 World Literature I 3 (3,0,0,0)
World Literature I explores literature from our earliest texts to c1651. Individual sections will include texts selected from around the world, and incorporate prose, poetry, and drama. Discussing the central themes of the global literary discourse will help students discover how authors have contributed to the literary tradition, recognize the influence of literature on contemporary thought, and form connections across historical, geographical, and cultural boundaries.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Instructor approval.

ENG 231H World Literature I – Honors 3 (3,0,0,0)
A reading intensive, Honors-level course designed to introduce students to the major figures, movements and ideas in world literature from ancient times to 1650.
Prerequisites: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C or higher; and admission to the Honors program.

ENG 232 World Literature II 3 (3,0,0,0)
World Literature II explores literature from c1651 to current times. Individual sections will include texts selected from around the world, and incorporate prose, poetry, and drama. Discussing the central themes of the global literary discourse will help students discover how authors have contributed to the literary tradition, recognize the influence of literature on contemporary thought, and form connections across historical, geographical, and cultural boundaries.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Instructor approval.

ENG 232H World Literature II – Honors 3 (3,0,0,0)
A reading intensive, Honors-level course designed to introduce students to the major figures, movements and ideas in world literature from 1650 to the present.
Prerequisites: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C or higher; and admission to the Honors program.

ENG 235 Survey of English Literature I 3 (3,0,0,0)
Reading and discussion of major British works and writers from Early English through the eighteenth century.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 236 Survey of English Literature II 3 (3,0,0,0)
Reading and discussion of major British works and writers from late eighteenth century through modern literature.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 241 Survey of American Literature I 3 (3,0,0,0)
Includes major American works and writers, Colonial Period to the Civil War, with emphasis on both enjoyment and critical appreciation of literature.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 242 Survey of American Literature II 3 (3,0,0,0)
Includes major American works and writers, Civil War to present, with emphasis on both enjoyment and critical appreciation of literature.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.
ENG 243  Introduction to Short Story  3 (3,0,0,0)
Short stories read and discussed, with special emphasis on analysis and interpretation of plot, character, point of view, theme, symbol and tone.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 252  Introduction to Drama  3 (3,0,0,0)
Reading and discussion of works selected from among the best in Western Culture, including but not restricted to ancient Greek comedy and tragedy, Shakespeare, Eighteenth Century Comedy and 19th Century Expressionism. Critical reviewing of drama, both live and on film, is promoted and encouraged.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 256  Introduction to the Literature of King Arthur  3 (3,0,0,0)
Readings in primary and secondary materials relating to the Arthurian Cycle.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 257  Introduction to Classical Mythology  3 (3,0,0,0)
Readings in primary and secondary materials relating to the Classical Mythology.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 259  Speculative Fiction and Fantasy Literature  3 (3,0,0,0)
Reading and discussion of selected novels and short stories.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or better.

ENG 260  World Mythology  3 (3,0,0,0)
Readings in primary and secondary sources to World Mythology.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or better; or Instructor approval.

ENG 261  Introduction to Poetry  3 (3,0,0,0)
Lectures and discussions about poetry intended to develop the student’s ability to read, understand and evaluate a poem.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 265  Nature in Literature  3 (3,0,0,0)
Students will read, analyze, and discuss various literary expressions of our conceptions of nature.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 267  Introduction to Women and Literature  3 (3,0,0,0)
Study of a variety of important women authors. Some semesters, offered as a study of important female characters taken from famous plays and novels.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 268  Introduction to Migrant Literature  3 (3,0,0,0)
Themes and ideas significant in immigrant literature related to voluntary and compulsory migration.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 271  Introduction to Shakespeare  3 (3,0,0,0)
Shakespeare’s principal plays read for their social interest and their literary excellence.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 271H  Introduction to Shakespeare – Honors  3 (3,0,0,0)
An Honors-level study of Shakespeare’s principal plays read for their social interest and literary excellence. Honors emphasizes an in-depth study of Shakespeare’s work focusing on its relevance to modern life. Courses with “H” suffixes are designated Honors-level courses and can be used to fulfill equivalent general education requirements.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C or higher; and admission to the Honors program.

ENG 272  Queer Literature  3 (3,0,0,0)
Overview of gay and lesbian literary figures from Western antiquity to present. Instruction explores love and sex between same-sex relationships through a historical and theoretical framework. Emphasis on rereading texts to discover gay and lesbian themes ignored or concealed in more traditional textural analyses.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.

ENG 273  Comic Books as Literature  3 (3,0,0,0)
This course will examine the power of comic books as they create and manipulate the significance of historical, social, political, and cultural issues within the framework of critical reading and literary analysis.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 275</td>
<td>Contemporary Literature</td>
<td>3</td>
<td>Reading and discussion of recent literature of various types to acquaint students with contemporary writers. Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.</td>
</tr>
<tr>
<td>ENG 278</td>
<td>Readings in the Contemporary Novel</td>
<td>3</td>
<td>Study of the post-World War II novel, its development, and direction. Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.</td>
</tr>
<tr>
<td>ENG 284</td>
<td>Introduction to the Bible as Literature</td>
<td>3</td>
<td>Readings in primary and secondary materials relating to the Bible as Literature. Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.</td>
</tr>
<tr>
<td>ENG 289</td>
<td>Holocaust and Genocide Literature</td>
<td>3</td>
<td>Focuses on literature of the World War II Holocaust and other previous and subsequent genocidal literature. Reading, discussion of selected works in social, historic, literary, comparative contexts. Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.</td>
</tr>
<tr>
<td>ENG 290</td>
<td>Introduction to African-American Literature</td>
<td>3</td>
<td>Introduction to the poetry, fiction, drama, and non-fiction of African Americans. Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.</td>
</tr>
<tr>
<td>ENG 292</td>
<td>Introduction to Chicano Literature</td>
<td>3</td>
<td>Introduction to Chicano literature through the study of classic and contemporary works of prose, poetry, and theater. Course conducted in English. Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.</td>
</tr>
<tr>
<td>ENG 293</td>
<td>Latin American Literature</td>
<td>3</td>
<td>An introduction to a rich and complex tradition of literary production from Latin America (including the Caribbean) that dates back from the pre-Columbian period to the present. Course will be conducted in English. Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.</td>
</tr>
<tr>
<td>ENG 296</td>
<td>Portfolio Assessment</td>
<td>1</td>
<td>A one-credit, independent study undertaken to satisfy the exit requirement of the Associate of Arts degree in English with a creative writing emphasis. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>ENG 298</td>
<td>Writing About Literature</td>
<td>3</td>
<td>ENG 298 focuses on prose, poetry, and drama in order to provide the tools students need for continued literary study. The course introduces basic literary terms, and various methods for analyzing texts. Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.</td>
</tr>
<tr>
<td>ENG 299</td>
<td>Special Topics in English</td>
<td>3</td>
<td>Investigates a special topic and/or area of interest within the field of English language, creative writing, or composition. Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C- or higher or Department Chair or Instructor approval.</td>
</tr>
<tr>
<td>ENG 333</td>
<td>Professional Communications</td>
<td>3</td>
<td>A course in applied rhetoric for students to develop the writing and communication skills they will need as professionals. The goal is to make strong writers with flexible analysis, writing, and oral communication skills. Prerequisites: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C or higher or Department Chair or Instructor approval, and admission to the Bachelor of Science program in Dental Hygiene, or the Bachelor of Applied Science program in Cardiorespiratory Science or Medical Lab Technology.</td>
</tr>
<tr>
<td>ENV 101</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
<td>A survey of basic ecological principles and an examination of selected environmental issues including overpopulation, pollution and energy alternatives.</td>
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<tr>
<td>ENV 220</td>
<td>Introduction to Ecological Principles</td>
<td>3</td>
<td>An introduction to the major principles and underlying processes of organismal, population, community and ecosystem ecology. (Same as BIOL 220.)</td>
</tr>
<tr>
<td>ENV 299</td>
<td>Special Topics in Environmental Studies</td>
<td>1-3</td>
<td>Covers selected topics of interest to students in environmental sciences. Prerequisite: ENV 101.</td>
</tr>
</tbody>
</table>
Education Professional Development

**EPD 111B** The Paraprofessional in Education 3 (3,0,0,0)
A course designed to acquaint students with the role of a paraprofessional in education.

**EPD 113B** Assisting in Math and Science Instruction 3 (3,0,0,0)
A course designed to introduce the student paraprofessional to current practices and tutoring strategies for math and science.

**EPD 114B** Assisting in Language Arts/Literacy Instruction 3 (3,0,0,0)
An introductory course addressing the language arts curriculum and tutoring strategies for the student paraprofessional assisting in the classroom.

**EPD 115B** Spanish for the School Professional 3 (3,0,0,0)
Basic conversational Spanish appropriate for the school professional.

**EPD 116B** Classroom Technology 3 (3,0,0,0)
The class will provide the student experience with technology commonly used in the classroom.

**EPD 117B** Understanding Special Education 3 (3,0,0,0)
An overview of the basics of special education including the IEP, IDEA and related services essential for education paraprofessionals.

**EPD 118B** Effective Communication Strategies 3 (3,0,0,0)
This course will explore effective communication strategies such as conflict resolution and effective means of communicating in writing in the school setting.

**EPD 119B** Understanding Assessment 3 (3,0,0,0)
This course will explore the role of assessment as it relates to the public school setting.

**EPD 121B** Diversity in the Classroom 3 (3,0,0,0)
This course is primarily designed for paraprofessional support teachers to explore the basic principles of diversity in schools, and of teaching diverse learners. Observation in schools is required.

**EPD 122B** Legal Issues in the Classroom 3 (3,0,0,0)
This course will explore the legal implications of working in a public school setting as a paraprofessional.

**EPD 130B** Supervising Education Paraprofessionals in School Settings 3 (3,0,0,0)
This course will provide teachers with supervisory skills and tools to work effectively with paraprofessionals in education.

**EPD 131B** Health and Safety Issues in School Settings 3 (3,0,0,0)
A course addressing the basic health and safety practices of the school setting.

**EPD 162B** PPST/Praxis I Reading Review 1 (1,0,0,0)
Review of reading and test taking skills to assist the student in approaching the PPST/Praxis I Reading Exam with confidence. Graded Pass/Fail.

**EPD 163B** PPST/Praxis I Writing Review 1 (1,0,0,0)
Review of writing and test taking skills to assist the student in approaching the PPST/Praxis I Writing Exam with confidence. Graded Pass/Fail.

**EPD 164B** PPST/Praxis I Math Review 1 (1,0,0,0)
Review of math and test-taking skills to assist the student in approaching the PPST/Praxis I Math Exam with confidence. Education majors are required to pass the PPST/Praxis I before completing their degree program. Graded Pass/Fail.

**EPD 350** Teaching with Technology – Level I 1 (1,0,0,0)
Overview of teaching with technology utilizing online learning styles, discussing digital technologies and experiencing with software programs as teacher resources. This course is taught exclusively online for practicing teachers.
Prerequisites: Basic computer and word processing skills.

**EPD 351** Teaching with Technology – Level II 1 (1,0,0,0)
Overview of teaching with technology utilizing online web and educational resources and exploring distance education related articles. This course is taught exclusively online for practicing teachers.

**EPD 352** Teaching with Technology – Level III 1 (1,0,0,0)
Overview of teaching with technology utilizing online web resources, teacher utilities, and educational resources. Course taught exclusively online to practicing teachers. Must possess basic computer/word processing skills and access to current office programs.
EPD 353 Orientation to Online Learning 1 (1,0,0,0)
Overview of the course management system, WebCT, used in online course development, including Email, Discussion Board and Chatroom.

EPD 354 Student Assessment in Online Courses 3 (3,0,0,0)
This online course addresses various assessment formats that can be used for evaluating students in online courses.

EPD 355 Instructional Design for Online Course Development 3 (3,0,0,0)
Introduces instructional design principles and relates the principles to the development of online courses.

EPD 356 Special Topics: Technology Innovations in Online Learning 2 (2,0,0,0)
This course introduces the emerging technologies for online teaching and learning. The list of technologies is subject to change based on professor discretion, as the course progresses, in terms of both additions and deletions of technologies. Technologies include: Web-Blogs, voice over Internet protocol (VoIP), and Podcasts.

EPD 357 Teaching and Learning in the Online Classroom – Level I 1 (1,0,0,0)
This course introduces pedagogical principles, skills and strategies for effective online teaching and online course management. Participants gain hands-on experience in using web-based chat rooms, email and discussion boards to increase student interaction in their online courses. Participants begin revising course content for the web and developing activities and assignments appropriate for specific disciplines. Course is taught exclusively within WebCT to practicing educators.

EPD 358 Teaching and Learning in the Online Classroom – Level II 1 (1,0,0,0)
Introduction to instructional strategies for online instruction. Students will explore the differences between live and online instruction, gain experience in using search engines/subdirectories to conduct research and critically evaluate online resources for instruction. Course is taught exclusively online to practicing educators.

EPD 359 Teaching and Learning in the Online Classroom – Level III 1 (1,0,0,0)
Participants learn how to revise course content, develop activities and assessment methods appropriate for specific disciplines. Ethical and legal issues associated with online learning will also be discussed. Course is taught exclusively online.

Educational Psychology

EPY 303 Educational Psychology 3 (3,0,0,0)
General principles, theories and recent research evidence regarding human development, human learning and human motivation, especially as they pertain to classroom instruction.
Prerequisites: PSY 101 or SOC 101 or ANTH 101 and Admission to Dental Hygiene Bachelor of Science Degree Program.

English as a Second Language

ESL 110B Integrated Skills I 3 (3,0,0,0)
The goal of this course is students’ acquisition and control of the sound structures and sentence patterns of basic introductory English.
Prerequisite: ESL Placement Test.

ESL 111B Integrated Skills II 3 (3,0,0,0)
The goal of this course is students’ acquisition and control of the sound structures and sentence patterns of beginning–low level English.
Prerequisite: ESL Placement Test or ESL 110B with a grade of C- or higher, or Instructor approval.

ESL 115B Reading and Communication for International Students I 3 (3,0,0,0)
Development of reading and communication skills through analysis of assigned texts, study of vocabulary and idioms; explanation of grammar difficulties as needed, and guided discussion.
Prerequisite: Placement Test.

ESL 118B Reading and Communication for International Students II 3 (3,0,0,0)
Development of reading and communication skills through analysis of assigned texts; study of vocabulary and idioms; explanation of grammar difficulties as needed; and guided discussion.
Prerequisites: Placement Test or both ESL 110B and ESL 115B.

ESL 119B Reading and Communication for International Students III 3 (3,0,0,0)
Development of reading and communication skills through analysis of assigned texts; study of vocabulary and idioms; explanation of grammar difficulties as needed; and guided discussion.
Prerequisites: Placement Test or both ESL 111B and ESL 118B.

ESL 120 Integrated Skills III 3 (3,0,0,0)
The goal of this course is students’ acquisition and control of the basic sound structures and sentence patterns of beginning–mid Level English.
Prerequisite: ESL Placement Test or ESL 111B with a grade of C- or higher, or Instructor approval.
ESL 121  Integrated Skills IV  3  (3,0,0,0)
The goal of this course is students' acquisition and control of the basic sound structures and sentence patterns of beginning–high level English.
Prerequisite: ESL Placement Test or ESL 120 with a grade of C- or higher, or Instructor approval.

ESL 122  Listening and Pronunciation  3  (3,0,0,0)
The goal of this course is for students to improve sound production and listening comprehension specifically in vowel/consonant system, reduced forms, stress, and intonation.
Prerequisite: ESL Placement Test or ESL 120 with a grade of C- or higher, or Instructor permission.

ESL 123  Reading I  3  (3,0,0,0)
The goal of this course is for students to develop intermediate–low level reading skills through analysis of assigned texts.
Prerequisite: ESL Placement Test or ESL 121 with a grade of C- or higher, or Instructor approval.

ESL 124  Grammar I  3  (3,0,0,0)
The goal of this course is students' acquisition and control of the basic structures and sentence patterns of intermediate–low Level English.
Prerequisite: ESL Placement Test or ESL 121 with a grade of C- or higher, or Instructor approval.

ESL 125  Reading II  3  (3,0,0,0)
The goal of this course is for students to develop intermediate–mid level reading skills through analysis of assigned texts.
Prerequisites: ESL Placement Test or ESL 123 with a grade of C- or higher, or Instructor approval.

ESL 126  Grammar II  3  (3,0,0,0)
The goal of this course is students’ acquisition and control of the basic structures and sentence patterns of intermediate–high Level English.
Prerequisites: ESL Placement Test or ESL 121 with a grade of C- or higher, or Instructor approval.

ESL 127  Listening and Note-taking  3  (3,0,0,0)
The goal of this course is to improve students’ listening comprehension, speaking, and note-taking skills in preparation of lecture-based courses.
Prerequisites: ESL Placement Test or ESL 126 with a grade of C- or higher, or Instructor approval.

ESL 129  Writing I  3  (3,0,0,0)
This goal of this course is for ESL students to write short simple, compound, and complex sentences without global errors and to form clear, short paragraphs.
Prerequisite: ESL Placement Test or ESL 126 with a grade of C- or higher, or Instructor approval.

ESL 132  Reading III  3  (3,0,0,0)
The goal of this course is for students to develop intermediate–high level reading skills through analysis of assigned texts.
Prerequisites: ESL Placement Test or ESL 125 with a grade of C- or higher, or Instructor approval.

ESL 133  Speech  3  (3,0,0,0)
The goal of this course is for ESL students to speak effectively and give formal speeches in front of a large group.
Prerequisite: ESL Placement Test or ESL 129 with a grade of C- or higher, or Instructor approval.

ESL 134  Beginning Conversation  3  (3,0,0,0)
The goal of this course is for ESL students to gain confidence in speaking, increase vocabulary, start conversations, and improve fluency and accuracy.
Prerequisite: ESL Placement Test or ESL 121 with a grade of C- or higher, or Instructor approval.

ESL 135  Reading IV  3  (3,0,0,0)
The goal of this course is for students to develop advanced–low level reading skills through analysis of assigned texts.
Prerequisites: ESL Placement Test or ESL 123 with a grade of C- or higher, or Instructor approval.

ESL 136  Intermediate Conversation  3  (3,0,0,0)
The goal of this course is for ESL students to form/support/argue opinions in conversations and increase fluency and accuracy.
Prerequisite: ESL Placement Test or ESL 124 or ESL 134 with a grade of C- or higher, or Instructor approval.

ESL 138  Writing II  3  (3,0,0,0)
The goal of this course is for ESL students to write complex paragraphs.
Prerequisites: ESL Placement Test or ESL 129 with a grade of C- or higher, or Instructor approval.

ESL 139  Writing III  3  (3,0,0,0)
The goal of this course is for ESL students to write essays.
Prerequisites: ESL Placement Test Test; or ESL 135 and ESL 138 both with a grade of C- or higher; or Instructor approval.

ESL 140  Advanced English Editing  3  (3,0,0,0)
The goal of this course is for advanced ESL speakers to edit their own grammar mistakes in writing.
Prerequisite: ESL Placement Test or ESL 139 with a grade of C- or higher, or Instructor approval.
ESL 190   ESL Capstone Sequence   3 (3,0,0,0)
The goal of this capstone course is for ESL students to write re-search essays based on analysis of audience, purpose, and rhetori-cal situations in college-level texts.
Prerequisite: ESL Placement Test; or ESL 139 with a grade of C- or higher; or Instructor approval.

ESL 195   TEAS Prep Course for Medical Students   3 (3,0,0,0)
The goal of this course is for native English and advanced ESL speakers to acquire test-taking strategies and skills/content in the reading and English/language sections of the Test for Essential Academic Skills (TEAS).
Prerequisite: Instructor approval

**Electronics Engineering Technology**

ET 100B   Survey of Electronics   3 (3,0,0,0)
Introduces modern electronics technology and electronics concepts including voltage, current, resistance, power and frequency and functional analysis of simple analog and digital systems.

ET 104B   Fabrication and Soldering Techniques 0.5-6 (0,1-12,0,0)
Introduces electronic fabrication skills, tool operations applied to fabrication techniques of simple circuit boards, reading of schematic diagrams, soldering, drafting and wire wrapping.

ET 106B   Test Equipment Operation   3 (2,2,0,0)
An introduction to the use and operation of general and special purpose electronic test equipment, includes oscilloscope, multimeters, electronic multimeters, signal generators and transistor/capacitor testers.

ET 108B   Telecommunications and the Information Age   3 (3,0,0,0)
An introductory course that looks at the Telecommunications Industry from a technology standpoint. The student will learn about the telephone and telephone system, local area networks, fiber optics, how a modem works, wireless communications and other related topics.

ET 111B   Mathematics for Electronics Applications   3 (3,0,0,0)
An electronics algebra/trigonometry course which includes signed numbers, laws of exponents, proportions, logarithms, trigonometric functions, polar and rectangular conversions. A working knowledge of pre-algebra is strongly suggested; a satisfactory ACT/SAT/Placement Test score and/or completion of a rigorous secondary school algebra course are good indicators.

ET 113B   Introduction to Radar   3 (3,0,0,0)
This course is an introduction to fundamental principles of radar. Topics include keys to a fundamental understanding of radar, directivity and the antenna beam, pulsed-delay and FM ranging, pulse compression, the Doppler effect, the pulsed spectrum, measuring range rate, choice of low and high PRFs, automatic tracking, and resolution requirements.
Prerequisite: ET 132B.

ET 125B   RF and Microwave Devices   3 (3,0,0,0)
This course includes a close look at various semiconductor RF and microwave devices, including microwave vacuum tubes, oscillators, amplifiers and power supplies.

ET 131B   DC for Electronics   4 (3,3,0,0)
Basic concepts of passive electronic circuits to include laws, measurements, and calculations relating to direct current. Components and general purpose test equipment are used in practical experimentation. Students in this course should have a working knowledge of algebra.

ET 132B   AC for Electronics   4 (3,3,0,0)
Basic concepts of passive electronic circuits to include laws, measurements, and calculations relating to alternating current. Components and general purpose test equipment are used in practical experimentation.
Prerequisite: (Either ET 111B or MATH 127) and either ET 131B or MT 102B (MT 102B must have a grade of B or higher).

ET 138B   Introduction to Slot Machine Technology   0.5-3 (0.5-3,0,0,0)
An introduction course detailing the theory and operation of typical slot machines. Installation, maintenance and troubleshooting of slot machines and their peripherals will also be covered in this course. This course can be repeated for up to a total of 3 credits.

ET 155B   Home Technology Convergence   3 (3,0,0,0)
This course prepares students for the CompTIA’s Home Technology Integration (HTI+) certification exam (HTO-10, HT1+ Residential System Examination and the HTO-102 HTI+ Systems Infrastructure and Integration Examination for HTI+ certification) and provides hands-on exercises in home technology integration skills. Topics covered include integration and internet control of residential subsystems, structured wiring systems integration, and an introduction to computer networking, safety, and troubleshooting. Subsystems discussed are home security, audio/video, computer networks, electrical wiring, HVAC (Heating Ventilation/Air Conditioning), irrigation, cable/satellite, broadband, and telecommunications. Hands-on lab experiences cover commercial wiring and the installation and troubleshooting of integrated system.
ET 205B  Power Supply Theory and Repair 1-4 (1-3,0-2,0,0)
The course covers the theory, operation, troubleshooting, and repair of unregulated, series linear and switching power supplies. A basic understanding of DC circuit theory and a rudimentary understanding of AC from work experience is recommended for students of this course. Can be repeated for a total of 4 credits.

ET 206B  Video Monitor Theory and Repair 1-4 (0-3,0-3,0,0)
Covers the theory, operation, repair, and troubleshooting of CRT displays, LCDs, and the power supplies which are found in most CRT and LCDs. The hands-on labs will include troubleshooting on equipment from various manufacturers. This course is designed for students who have completed courses on DC and digital electronics or have at least 2 years of electronic experience. Can be repeated for up to a total of 4 credits.

ET 212B  Digital Logic I 4 (3,3,0,0)
This course is the first semester of a one-year course to study digital logic. It covers number system, logic gates, Boolean algebra and Karnaugh mapping, binary arithmetic and adders, combinational/sequential circuits and their applications. Students taking this course should have a basic understanding of electrical/electronics theory.

ET 213B  Digital Logic II 4 (3,3,0,0)
Counters and registers, TTL and CMOS integrated circuits, MSI logic circuits, analog/digital interfacing circuits, memory devices, and introduction to microprocessors and microcomputers. Prerequisite: ET 212B.

ET 220B  Solid State Devices and Circuits I 4 (3,3,0,0)
Covers characteristics, analysis and operation of rectifier diodes, Zener and other diodes; BJT transistor small-signal and power amplifiers; FET and MOSFET transistors and circuitry. Prerequisite: ET 132B or Instructor approval.

ET 222B  Solid State Devices and Circuits II 4 (3,3,0,0)
This course covers amplifier-frequency responses for both discrete and integrated circuits, op-amp circuits, thyristors, oscillators, active filters, and voltage regulators. Prerequisite: ET 220B.

ET 224B  Vacuum Tube Theory 1-4 (1-3,0-2,0,0)
This course covers the theory of operation for all electronic tube devices and focuses on the operation of tube based devices Diodes, Triodes, Tetrodes, and Pentodes. The course also covers the use of tube devices in basic circuits such as power supplies. The course is designed for students who have completed courses in electronic devices or have at least 2 years of electronic experience. Can be repeated for a total of 4 credits.

ET 228B  Data Acquisition 3 (2,3,0,0)
This course provides a detailed look at data acquisition components: analog-to-digital converters (ADCs), digital-to-analog converters (DACs), sample and hold amplifiers, sensors, and PLLs. Op-amp theory and applications are also covered. Prerequisites: ET 132B and ET 212B.

ET 238B  Device Peripherals 3 (2,2,0,0)
Covers the key components and sub-assemblies used in slot machines and other self-service devices such as Kiosks, and ATMs. Instruction includes topics such as opto-couplers, thyristors, bill acceptors, and interface standards, microprocessors/controllers, power supplies, switches, and displays. Prerequisites: ET 131B and ET 212B.

ET 270B  Electronics Bench Servicing Techniques 4 (3,3,0,0)
Troubleshooting and servicing television, radio and other home entertainment equipment utilizing general purpose and special purpose test equipment.

ET 276B  Telecommunications 4 (3,3,0,0)
Topics covered include the Public Switched Telephone Network, the subscriber loop interface, the telephone instrument, trunk circuits, T-Carrier, switching, Voice over IP (VoIP) and telephone company operations. Prerequisite: ET 131B.

ET 282B  Microprocessors I 3 (2,3,0,0)
A course on microprocessor machine and assembly language programming. A microprocessor’s instruction set will be covered along with its architecture and interface. Prerequisite: ET 212B.

ET 289B  Electrical Troubleshooting 1-4 (1-3,0-3,0,0)
Maintenance and service of electronic equipment and troubleshooting techniques using electrical measuring and test devices. This course is designed for students who have completed electronics courses that cover DC-AC electronics, semiconductor devices, and digital electronics or have at least 2 years of experience in electronics. Can be repeated for up to a total of 4 credits.
ET 293B  Telecommunication Transmission Methods  3 (2,3,0,0)
Topics include: Amplitude, Frequency and Pulse Modulation, Modem technologies (wireline, cable and DSL), error control, cyclic codes (CRC-16, Hamming, etc.). Circuit switched and packet transmission of voice and data over SONET and wireless media (fiber optic and microwave) are emphasized.
Prerequisite: ET 132B.

ET 294B  EET Capstone  3 (2,2,0,0)
Review of electrical circuits, analog and digital electronics, microprocessors; design, fabrication and testing of an emphasis/concentration based project including schematics, wiring diagrams, and software; brief presentation and demonstration of working prototype.
Prerequisite: ET 293B or ET 238B.

ET 301  Customer Service Management  3 (3,0,0,0)
This course provides students with an introduction and basic overview of the importance of customer relations and service in business and industry. The course deals with why and how organizations must reach out to customers so they may understand and gain the benefits in doing so. It is about satisfying the customers. It challenges students to use their critical and creative skills in all aspects of the subject.
Prerequisite: Department approval.

ET 313  Advanced Radar  3 (2,2,0,0)
Increases understanding of Moving Target Indication (MTI) and Moving Target Detecting (MTD) processing.
Prerequisite: ET 113B.

ET 389  Advanced Electronics Troubleshooting  3 (2,3,0,0)
This course is a study of the systematic techniques for troubleshooting electronic equipment. Logical procedures are emphasized rather than specific circuits. Students are required to troubleshoot and repair selected equipment.
Prerequisites: ET 220B and ET 289B.

ET 402  Control Systems  3 (2,3,0,0)
This course provides various controller synthesis methods that are particularly relevant in practice. The topics include PID design, algebraic design, optimal control and specific control architectures such as cascade control and feed forward approaches. Moreover, the course puts emphasis on fundamental limits that are introduced by practical equipment such as sensors and actuators.
Prerequisites: MATH 126 and either MATH 127 or MATH 128 and ET 228B.

ET 430  Electrical Power Systems  3 (2,3,0,0)
This course studies motors, generators, and techniques employed in the electric power distribution. Topics include: magnetism and magnetic circuits, DC motors and generators, single and three-phase transformers and power systems, single line diagrams, three-phase fault calculations, load considerations, power factor correction, and system considerations.
Prerequisites: MATH 126 and either MATH 127 or MATH 128 and ET 132B.

ET 494  Senior Project  3 (2,3,0,0)
This course requires the planning and designing of a project in consultation with faculty advisors and industry contacts (as required). The project is built, tested and demonstrated. Written technical reports and oral presentations of the project are required. This class must be taken in the student’s final semester.
Prerequisite: Department approval.

Food and Beverage

FAB 102  Sanitation for the Food Service Industry  2 (2,0,0,0)
Designed to provide an overview of the theory and practice of food safety and sanitation for food service operations. Emphasis is placed on methods that help an operation prevent foodborne illness outbreaks. Students have an opportunity to earn a ServSafe Food Protection Manager Certification.

FAB 112  Restaurant Management I  3 (2,3,0,0)
Designed to provide an overview of the principles of restaurant management and operations. During the laboratory portion of the course students will develop skills through hands-on practical application in Russell’s (CSN’s on-campus, full service, open to the public restaurant).
Prerequisite: ENG 100 or ENG 101 or ENG 102 or ENG 107 or ENG 113 or ENG 205 or higher with a grade of C or better.

FAB 160  Hospitality Purchasing  3 (3,0,0,0)
Basic principles of purchasing food, beverage, equipment, contract services and supplies. Primary focus on product identification, supplier selection, and the ordering, receiving, storing and issuing process.
FAB 167  Food Service Nutrition  
2 (2,0,0,0)
Students learn the basics of nutritionally balanced menu planning and methods of promoting and producing healthy alternative food plans.

FAB 190B  Bartending  
3 (2,2,0,0)
A basic class devoted to developing the skills necessary to function as a bartender in a Hospitality operation. This is a hands-on course covering mixology of liquors and the handling of all types of alcoholic beverages. Must be 21 or older

FAB 210  Fundamentals of Food and Beverage Control  
3 (3,0,0,0)
Cost control in the food service operation through sound procedures, controlled food production, inventories, storeroom issues, standardized recipes, effective labor practices and maintenance of records.
Prerequisites: FAB 160 and MATH 104B or MATH 120 or MATH 124 or MATH 126.

FAB 230  Menu Planning  
3 (3,0,0,0)
The basics of planning menus for a variety of food service establishments. Students will learn marketing and merchandising menus, menu development and costing, basic menu printing software and develop their own individual menus.
Prerequisite: FAB 112 with a grade of C or better.

FAB 271  Wine Appreciation  
3 (3,0,0,0)
A comprehensive course on the wines of the world. The art of wine making, geographical identification of wine regions, ordering and serving of fine wines, history of wines and the proper matching of wines with foods. Each class meeting will include the tasting of several wines. Minimum age for enrollment is 21.

FAB 272  Liquor and Bar Management  
3 (3,0,0,0)
A survey of the service and control of wines, liquors and beers, including discussion of taxes and local, state and national laws relating to the liquor industry. Student must be 21 or older.

FAB 285  Catering Management  
3 (3,0,0,0)
Course teaches students how to market, sell, organize, plan, and execute catered affairs. Includes various types of meeting room setups used to meet customer requirements.
Prerequisite: FAB 112 or TCA 188 with a C- or better.

FAB 295  Work Experience in Food Service  
1 (0,0,0,1)
In addition to the academic requirements, the Department of Hospitality Management requires 200 hours of acceptable employment in the hospitality industry. This work experience will be measured quantitatively as well as qualitatively. The work experience requirement should be met during the school year or in summers. Students who plan to transfer to UNLV will be able to transfer a maximum of 500 hours of employment toward UNLV’s 1000-hour employment requirement. International students must go to the office of International Student Services to verify employment eligibility and obtain authorization. This course can be repeated up to a maximum of four credits. Grade will be given upon verification of employment.

Filipino

FIL 101B  Basics of Filipino I  
3 (3,0,0,0)
A course emphasizing spoken communication. Focus is on speaking, listening, reading and writing skills. A vocabulary of Filipino-English words developed.

FIL 102B  Basics of Filipino II  
3 (3,0,0,0)
A course continuing the development of skills acquired in FIL 101B. Increased fluency and further vocabulary development stressed.
Prerequisite: FIL 101B.

FIL 111  First Year Filipino I  
4 (4,0,0,0)
The development of language skills in listening, speaking, reading and writing. Oral emphasis.

FIL 112  First Year Filipino II  
4 (4,0,0,0)
A second-semester course designed to continue the development of language skills learned in FIL 111.
Prerequisite: FIL 111.

Banking and Finance

FIN 101  Personal Finance  
3 (3,0,0,0)
A study of the techniques of managing personal income, savings and expenses, making wise purchase decisions, and insuring, investing and controlling financial resources.

FIN 115  Introduction to Investments  
3 (3,0,0,0)
Major types of investment securities and the markets in which they are traded. Mechanics of making an investment, including basic analytical and valuation techniques and a survey of investment literature and terms.
COURSE DESCRIPTIONS

Floral Design

**FLOR 102B  Introduction to Floral Design  3 (3,1,0,0)**
Introductory course covering floral design theory, history, techniques and the skills currently required for employment in the floral design industry. Lab experience covers construction of basic floral products. Successful completion of course offers entry-level employment in field.

**FLOR 106B  Permanent Botanicals  3 (3,1,0,0)**
Designed to provide the student with theory and lab experience in the use of artificial materials and dried flowers. Emphasis on mechanics and techniques of construction for home interiors, as well as commercial applications. Preservation processes and interiorscapes included.
Prerequisite: FLOR 102B.

**FLOR 108B  Event Balloon Sculptures  1.5 (1,1,0,0)**
Course will address the planning, purchasing, construction, installation and strike of large event balloon decor. Arches, themed decor, props and large sculptures will be constructed.

**FLOR 115B  Mega-Department Practices  3 (3,1,0,0)**
Addresses workplace practices common to mega-floral settings like those found in resorts and supermarkets. Job application, task analysis and interiorscape planning/installation are covered.
Prerequisite: FLOR 102B.

**FLOR 202B  Tributes and Traditions  3 (2,2,0,0)**
A study of the effects of international influences on florals. Cultural differences in expression through floral tributes will be explored through customs, practices and traditions of many countries. Retail practices in the handling and styling of floral tributes specific to funerals with cross applications to other situations.
Prerequisite: FLOR 102B.

**FLOR 204B  Traditional Weddings  3 (2,2,0,0)**
Designed to provide the student with theory and lab experience in the styling of floral pieces specific to weddings. Body flowers, carrying pieces, ceremony and reception designs will be executed. Consultation, service and delivery procedures will be covered, as well as ordering and pricing.
Prerequisite: COM 115 and FLOR 102B.

**FLOR 206B  Beginning Ikebana  3 (2,2,0,0)**
Course includes history, techniques and skills specific to the Japanese art of floral design with direct application to commercial floristry. Specialized tools and containers will be required to complete lab projects reflecting the many styles of Ikebana designs.
Prerequisite: FLOR 102B.

**FLOR 208B  Creativity and Competition  3 (2,2,0,0)**
Principles and practices of the creative process will be developed to enhance design skills. Students will apply these skills to prepare for industry competition.
Prerequisite: FLOR 102B.

**FLOR 216B  Advanced Ikebana  3 (2,2,0,0)**
A continuation of FLOR 206B Beginning Ikebana. In-depth study of advanced styles and masters of Ikebana.
Prerequisite: FLOR 206B.

**FLOR 220B  Events and Display  3 (2,2,0,0)**
Comprehensive information regarding planning, organizing, managing and delivering designs for special occasions. Party props, room decor, table treatments, lighting and display elements are emphasized along with art principles and creative thematic approaches to floral design.
Prerequisite: FLOR 102B.

**FLOR 224B  Techniques and Mechanics  1.5 (1.5,0.5,0,0)**
Course addresses unique approaches to floral design mechanics and techniques for advanced design situations, including working in glass, hi-style, bridal/body flowers, naturalistic applications and European design.
Prerequisite: FLOR 102B or Instructor approval.

**FLOR 225B  Color and Product Mix  1.5 (1.5,0.5,0,0)**
Course addresses the use of color as an aesthetic sales tool in the manufacture of floral products. Focus is on selection of product as it relates to color, as well as combining materials to maximize each composition in respect to texture, unity, rhythm, line, form, and balance.
Prerequisite: FLOR 102B or Instructor approval.

**FLOR 240B  Advanced Weddings  3 (2,2,0,0)**
Designed to provide the student with theory and lab experience in the styling of floral pieces specific to weddings. Adapting European Designs and techniques. Body flowers, carry pieces, ceremony and reception designs will be executed. Consultation, service and delivery procedures will be covered, as well as ordering and pricing.
Prerequisite: FLOR 204B.

**FLOR 295B  Floral Careers Internship  1-4 (0,0,0,5-20)**
Designed to provide the student with on-the-job supervised and educationally directed work experience in the floral industry. One credit may be earned for each 75 hours worked. Variable to four credits per semester, repeatable not to exceed eight credits total. International students must go to the International Center to verify employment and obtain authorization. After registering, contact Floral Design Program for placement. Instructor approval required.
FLOR 299B Selected Topics 1-5 (1-3,0-4,0,0)
Topics will vary and cover both business and design information relevant to commercial floristry, including industry experts and hands-on labs. Dates and times will vary.

French

FREN 101B Conversational French I 3 (3,0,0,0)
A course emphasizing spoken communications. Speaking skills, oral listening skills, reading and writing skills explored. A vocabulary of French-English words developed.

FREN 102B Conversational French II 3 (3,0,0,0)
A course emphasizing a continuation of skills acquired in FREN 101B. Increased fluency and further vocabulary development stressed.

FREN 103 First Year Business French I 4 (4,0,0,0)
A course that deals intensively with French business practices and French business language intended for students who encounter French-speaking clients in various professional situations.

FREN 104 First Year Business French II 4 (4,0,0,0)
An applied language course for learners who want to communicate with ease with French-speaking clients and further their knowledge of commercial and managerial French.
Prerequisite: FREN 103.

FREN 107 French for Hotel, Restaurant and Tourism I 3 (3,0,0,0)
Students with no prior knowledge of French who work in hotels, restaurants or in tourist settings learn to communicate effectively with their French-speaking clientele.

FREN 111 First Year French I 4 (4,0,0,0)
The development of language skills in listening, speaking, reading and writing. Emphasis is placed on communication in all four language acquisition skills.

FREN 112 First Year French II 4 (4,0,0,0)
The further development of language skills in listening, speaking, reading and writing. Emphasis is placed on more sophisticated communication in all four language acquisition skills.
Prerequisite: FREN 111 or equivalent.

FREN 204 Second Year Business French II 4 (4,0,0,0)
An applied intermediate language course for learners who want to perfect their language abilities and knowledge of business French and French business practices.
Prerequisite: FREN 203.

FREN 207 French for Hotel, Restaurant and Tourism II 2 (2,0,0,0)
Students with previous knowledge of French in the area of hotel, restaurant and tourism increase their communication skills in their respective employment fields.
Prerequisite: FREN 107.

FREN 211 Second Year French I 3 (3,0,0,0)
Continuation of French language skills and intensive reviews of grammatical structures, listening, speaking, reading and writing skills through an introduction to French literary readings.
Prerequisite: FREN 112 or equivalent.

FREN 212 Second Year French II 3 (3,0,0,0)
Further amelioration and perfection of grammatical, listening, speaking, reading and writing skills through selected French literary readings.
Prerequisite: FREN 211 or equivalent.

Fire Science Technology

FT 101 Principles of Emergency Services 3 (3,0,0,0)
This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives. FESHE Core Course.

FT 104 Nevada Firefighter I 3 (3,0,0,0)
This course will familiarize the student with the general rules and regulations of fire fighting, use and explanation of forcible entry, protective breathing apparatus, fire streams, first aid, ropes, salvage, fire hose, nozzles and apparatus, ladders, ventilation, inspection, rescue, sprinklers, fire alarms and communications, safety and fire behavior.

FT 105 Fire Behavior and Combustion 3 (3,0,0,0)
This course explores the theories and fundamentals of how and why fires start, spread and are controlled. FESHE Core Course.
FT 109B  Internship in Firefighting  1  (0,0,0,4)
This course will provide students with work experience and skills sign-offs that meet the National Fire Protection Association’s Firefighter I criteria. This course will make the student eligible to take the Nevada Fire Fighter I exam. Students must have proof of insurance.
Prerequisites: FT 101 and FT 104 and EMS 108B.

FT 110  Basic Wildland Firefighting  3  (3,0,0,0)
Addresses the basic elements of wildland fire protection, fire behavior, department organization, apparatus and equipment, fire safety and incident command organization.

FT 121  Fire Prevention  3  (3,0,0,0)
This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation. FESHE Core Course.

FT 125  Building Construction for Fire Protection  3  (3,0,0,0)
This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. FESHE Core Course.

FT 126  Fire Investigation I  3  (3,0,0,0)
This course is intended to provide the student with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes. FESHE Non-Core Course.
Prerequisites: FT 104 and FT 125 or Instructor approval.

FT 131  Hazardous Materials Chemistry  3  (3,0,0,0)
This course provides basic chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, transportation, awareness, and health hazards encountered by emergency services. FESHE Non-Core Course. This course qualifies the student to take the State Fire Marshal Hazardous Materials Awareness and Operations State Exam.
Prerequisites: FT 101 and FT 104 and EMS 108B.

FT 150  Apparatus and Equipment  3  (3,0,0,0)
Operation of fire department apparatus and equipment. Driving techniques, traffic laws and restrictions relating to fire apparatus. Construction and maintenance of equipment also stressed.

FT 151  Fire Protection Hydraulics and Water Supply  3  (3,0,0,0)
This course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems. FESHE Non-Core Course.
Prerequisites: FT 101 and FT 104 and MATH 120 or Instructor approval.

FT 152B  Legal Aspects of Emergency Services  3  (3,0,0,0)
This course will address the Federal, State, and local laws that regulate emergency services and include a review of national standards, regulations, and consensus standards. FESHE Non-Core Course.
Prerequisite: FT 104 or Instructor approval.

FT 153B  Occupational Safety and Health for Emergency Services  3  (3,0,0,0)
This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations. FESHE Non-Core Course.

FT 154B  Principles of Fire and Emergency Services Safety and Survival  3  (3,0,0,0)
This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. FESHE Core Course.
Prerequisite: FT 104 or Instructor approval.

FT 190  Fire Instructor  3  (3,0,0,0)
Topics included are the role of the instructor, preparing instructional objectives, communication skills, use of visual aids, and practice teaching techniques. Meets NFPA Standard 1041, Fire Instructor Training. Those completing the course will be certified as Fire Instructor I by the Nevada State Fire Marshal.
Prerequisites: FT 101 and FT 104 and FT 243; or Instructor approval.

FT 191  Introduction to Company Officer  3  (3,0,0,0)
This is an entry-level course which prepares the students to recognize the fire service company officer’s role. It will examine group dynamics, communication, fire department organizational structure, fire ground and station management. This course partially meets the National Fire Protection Association’s standard for Fire Officer. This course qualifies the student to take the State Fire Officer I exam.
Prerequisites: FT 101 and FT 104 and FT 243; or Instructor approval.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT 224</td>
<td>Fire Protection Systems</td>
<td>3</td>
<td>This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. FESHE Core Course.</td>
</tr>
<tr>
<td>FT 226</td>
<td>Fire Investigation II</td>
<td>3</td>
<td>This course is intended to provide the student with advanced technical knowledge on the rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation and courtroom testimony. FESHE Non-Core Course.</td>
</tr>
<tr>
<td>FT 224</td>
<td>Fire Protection Systems</td>
<td>3</td>
<td>Prerequisite: FT 126.</td>
</tr>
<tr>
<td>FT 226</td>
<td>Fire Investigation II</td>
<td>3</td>
<td>Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>FT 243</td>
<td>Strategy and Tactics</td>
<td>3</td>
<td>This course provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents. FESHE Non-Core Course.</td>
</tr>
<tr>
<td>FT 243</td>
<td>Strategy and Tactics</td>
<td>3</td>
<td>Prerequisites: FT 101 and FT 104 or Instructor approval.</td>
</tr>
<tr>
<td>FT 291</td>
<td>Fire and Emergency Services Administration</td>
<td>3</td>
<td>This course introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency service, ethics, and leadership from the perspective of the company officer. FESHE Non-Core Course.</td>
</tr>
<tr>
<td>FT 291</td>
<td>Fire and Emergency Services Administration</td>
<td>3</td>
<td>Prerequisites: FT 101 and FT 104 or Instructor approval.</td>
</tr>
<tr>
<td>FT 298</td>
<td>Seminar in Fire Management</td>
<td>3</td>
<td>Selected topics in Fire Management.</td>
</tr>
<tr>
<td>FT 298</td>
<td>Seminar in Fire Management</td>
<td>3</td>
<td>Prerequisites: Instructor approval.</td>
</tr>
<tr>
<td>FT 300</td>
<td>Fire Dynamics</td>
<td>3</td>
<td>This course examines the underlying principles involved in structural fire protection systems, building furnishings, and fire protection systems, including water-based fire suppression systems, fire alarm and detection systems, special hazard suppression systems, and smoke management systems. FESHE Non-Core Course.</td>
</tr>
<tr>
<td>FT 300</td>
<td>Fire Dynamics</td>
<td>3</td>
<td>Prerequisites: Instructor approval.</td>
</tr>
<tr>
<td>FT 302</td>
<td>Fire and Emergency Services Administration</td>
<td>3</td>
<td>This course is designed to be a progressive primer for students who want more knowledge about fire and emergency services administration. The course demonstrates the importance of the following skills necessary to manage and lead a fire and emergency services department through the challenges and changes of the 21st century: persuasion and influence, accountable budgeting, anticipation of challenges and the need for change, and using specific management tools for analyzing and solving problems. A central part of the course focuses on how the leadership of a fire and emergency services department develops internal and external cooperation to create a coordinated approach to achieving the department’s mission. FESHE Core Course.</td>
</tr>
<tr>
<td>FT 302</td>
<td>Fire and Emergency Services Administration</td>
<td>3</td>
<td>Prerequisites: Instructor approval.</td>
</tr>
<tr>
<td>FT 303</td>
<td>Personnel Management for Fire and Emergency Services</td>
<td>3</td>
<td>This course examines relationships and issues in personnel administration and human resource development within the context of fire-related organizations, including personnel management, organizational development, productivity, recruitment and selection, performance management systems, discipline, and collective bargaining. FESHE Core Course.</td>
</tr>
<tr>
<td>FT 303</td>
<td>Personnel Management for Fire and Emergency Services</td>
<td>3</td>
<td>Prerequisites: Instructor approval.</td>
</tr>
<tr>
<td>FT 304</td>
<td>Fire Prevention Organization and Management</td>
<td>3</td>
<td>This course examines the factors that shape fire risk and the tools for fire prevention, including risk reduction education, codes and standards, inspection and plans review, fire investigation, research, master planning, various types of influences, and strategies. FESHE Core Course.</td>
</tr>
<tr>
<td>FT 304</td>
<td>Fire Prevention Organization and Management</td>
<td>3</td>
<td>Prerequisites: Instructor approval.</td>
</tr>
<tr>
<td>FT 305</td>
<td>Managerial Issues in Hazardous Materials</td>
<td>3</td>
<td>This course presents current issues in management of a department-wide hazardous materials program. It includes issues that are pertinent to officers and managers in public safety departments, including regulations and requirements for hazardous materials (hazmat) preparedness, response, storage, transportation, handling and use, and the emergency response to terrorism threat/incident. Subjects covered include State, local, and Federal emergency response planning, personnel and training, and operational considerations such as determining strategic goals and tactical objectives. FESHE Non-Core Course.</td>
</tr>
<tr>
<td>FT 305</td>
<td>Managerial Issues in Hazardous Materials</td>
<td>3</td>
<td>Prerequisites: Instructor approval.</td>
</tr>
</tbody>
</table>
FT 306  Financial Management for Fire and Emergency Services 3 (3,0,0,0)
Provides an overview of fiscal administration in the public sector at all levels of government. Introduces students to basic concepts and practices in two key areas: government revenues and budgeting.
Prerequisites: Instructor approval.

FT 400  Fire Investigation and Analysis 3 (3,0,0,0)
This course examines the technical, investigative, legal, and social aspects of arson, including principles of incendiary fire analysis and detection, environmental and psychological factors of arson, legal considerations, intervention, and mitigation strategies. FESHE Non-Core Course.
Prerequisites: Instructor approval.

FT 401  Fire Protection Structures and Systems 3 (3,0,0,0)
This course examines the underlying principles involved in structural fire protection systems, building furnishings, and fire protection systems including water-based fire suppressions systems, fire alarm and detection systems, special hazard suppression systems, and smoke management systems. FESHE Non-Core Course.
Prerequisites: Instructor approval.

FT 402  Fire Related Human Behavior 3 (3,0,0,0)
This course presents a study of human behavior in fire and other emergency situations. Students will examine current and past research on human behavior, systems models, life safety education, and building design to determine interactions of these areas in emergency situations. Students will develop an understanding of a best-practice building life safety system as one that combines knowledge in the areas of psychology and sociology joined with engineering and education to produce the best possible outcomes in terms of human survivability in an emergency. FESHE Non-Core Course.
Prerequisites: Instructor approval.

FT 403  Disaster Planning and Control 3 (3,0,0,0)
This course examines concepts and principles of community risk assessment, planning, and response to fires and natural and human-caused disasters, including National Incident Management System--Incident Command Systems (NIMS ICS), mutual aid and automatic response, training and preparedness, communications, civil disturbances, terrorist threats/incidents, hazardous materials planning, mass casualty incidents, earthquake preparedness, and disaster mitigation and recovery. FESHE Non-Core Course.
Prerequisites: Instructor approval.

FT 404  Analytical Approaches to Public Fire Protection 3 (3,0,0,0)
This course examines the tools and techniques of rational decision making in fire and emergency services agencies, including data collection, statistics, probability, decision analysis, utility modeling, resource allocation, and cost-benefit analysis. FESHE Non-Core Course.
Prerequisites: Instructor approval.

FT 405  Community Risk Reduction for Fire and Emergency Services 3 (3,0,0,0)
This course provides a theoretical framework for the understanding of the ethical, sociological, organizational, political, and legal components of community risk reduction, and a methodology for the development of a comprehensive community risk reduction plan. FESHE Core Course.
Prerequisites: Instructor approval.

FT 406  Applications of Fire Research 3 (3,0,0,0)
This course examines the basic principles of research and methodology for analyzing current fire-related research. The course also provides a framework for conducting and evaluating independent research in the following areas: fire dynamics, fire test standards and codes, fire safety, fire modeling, structural fire safety, life-safety, firefighter health and safety, automatic detection and suppression, transportation fire hazards, risk analysis and loss control, fire service applied research and new trends in fire-related research. FESHE Core Course.
Prerequisites: Instructor approval.

Casino Management

GAM 103  Casino Cage Operations 3 (3,0,0,0)
An introduction to casino cage and credit operational standards, casino cage design, bankroll accountability, cage cashier operational procedures, fill and credit standards, casino credit instruments, central credit, soft count operational procedures, check cashing, casino accounting and auditing, Title 31 compliance, and casino cage managerial techniques.

GAM 106  Casino Floor Supervision 3 (3,0,0,0)
Basic casino managerial techniques with an emphasis on the protection of casino games, staffing, labor/management relations, floor, pit, and shift supervision, minimum internal control standards, player ratings, currency transaction reporting, credit standards, table games accounting, and table games mathematics.
GAM 108  Slots Management I  3  (3,0,0,0)
Basic slots management techniques with an emphasis on the laws and regulations that affect slot operations, slot machine components, classifications, and functionality, current and future technology trends, consumer behavior and slot machine psychology, game selection methodologies, slot floor layout considerations, slot mathematics, slot financial reporting and analysis and human resources and customer service issues.

GAM 109  Slots Management II  3  (3,0,0,0)
Advanced slots management techniques with an emphasis on labor/management relations, productivity, staffing and directing, analysis of the slot report, marketing and promotions of slots and the detection of slot scams.

GAM 119  Blackjack Dealing  3  (3,0,0,0)
Fundamentals of dealing Blackjack with an emphasis on card totaling, chip handling, shuffling, multiple deck delivery, payoffs odds, various play options, accuracy and game speed. Novelty game dealing procedures are introduced including Let-it-Ride Poker, Three Card Poker, Crazy 4 Poker, Ultimate Texas Hold 'Em Poker, Pai Gow Poker, and Casino War. Special attention given to the managerial aspects of Blackjack.

GAM 121  Craps Dealing  3  (3,0,0,0)
Fundamentals of dealing Craps with an emphasis on accurate and quick mental multiplication, base and stick procedures, chip handling, and take and pay sequencing. Various bets including pass line, don’t pass, field, big 6, big 8, come, don’t come, true odds, place, buy, lay, and propositions are introduced. Special attention given to managerial aspects of Craps.

GAM 122  Roulette Dealing  3  (3,0,0,0)
Fundamentals of dealing Roulette with an emphasis on accurate and quick mental computations, chip handling techniques, spinning the ball and wheel, stack pushing techniques, outside betting procedures and payoffs, inside betting procedures and payoffs, complex payoffs, table limits, pattern recognition, chip values, and conversions. Special attention given to the managerial aspects of Roulette.

GAM 123  Baccarat Dealing  3  (3,0,0,0)
Fundamentals of dealing Baccarat with an emphasis on chip handling techniques, the third card rule, stick calls, banker bets, player bets, tie bets, commissions, hand delivery techniques, rim credit, call bets, player shoe control, and high-limit customer relations. Mini-Baccarat, Midi-Baccarat, and Big Baccarat styles are addressed. Special attention given to the managerial aspects of Baccarat.

GAM 124  Poker Dealing  3  (3,0,0,0)
Fundamentals of dealing Poker with an emphasis on accurate and quick mental computations, card handling, the rake, side pots, brushing, shilling, proposition players, procedures, game speed and the various forms of Poker. Special attention given to the managerial aspects of Poker.

GAM 126  Pai Gow Tiles Dealing  3  (3,0,0,0)
Fundamentals of dealing Pai Gow Tiles with an emphasis on tile rankings, house ways, exceptions, tile handling techniques, player banking procedures, various tile deliveries, commissions, mental computations, accuracy, game speed and the importance of customer relations. Special attention given to the managerial aspects of Pai Gow Tiles.

GAM 131  Race and Sports Book Management  3  (3,0,0,0)
This course prepares students in the specific techniques and methods of the daily operations of Nevada race and sports books. Students will be made aware of supervision and managerial responsibilities of book operations. Topics include operating budgets, marketing, state regulations and bookmaking theory.

GAM 204  Introduction to Casino Marketing  3  (3,0,0,0)
An overview of casino marketing and how the marketing function impacts the casino organization. Topics include casino promotions, database marketing techniques, dead chip programs, discounting, casino hosting, credit procedures, marketing policies and procedures, amenities, and the casino marketing plan.

GAM 206  Casino Surveillance  3  (3,0,0,0)
All aspects of modern casino surveillance including an overview of surveillance operations, reporting procedures, internal theft, procedure violations, cheating and advantage play, basic strategy, biometric technologies, evidence, civil liabilities, detection and prevention techniques, surveillance equipment, surveillance management, and gaming control board requirements.

GAM 207  Table Games Management  3  (3,0,0,0)
Advanced table games management techniques with an emphasis on game productivity, gaming mathematics, table games marketing and promotions, advanced game protection strategies, customer service, table games human capital management, and an in-depth analysis of table games profitability factors.

GAM 208  Casino Business Strategy  3  (3,0,0,0)
Fundamentals of the strategic business processes of a casino organization from internal and external prospectives. Topics include casino economics, environmental factors including social, political, legal and competitive forces, consumer behaviors, development of a corporate culture, internal controls, and the future of the gaming industry.

GAM 210  Casino Customer Service  3  (3,0,0,0)
Fundamentals of the theory, practice and management of guest service and how it impacts the success of a casino organization with an emphasis on service strategies, staffing issues, and service systems. Topics include the dynamics of guest satisfaction, service quality and value, planning and analysis, the service environment, training and motivation, establishment of a total service culture, guest co-production, communications, service failure recovery techniques, delivery systems, and measurement of service results.
GAM 222 European Roulette Dealing 3 (3,0,0,0)
Fundamentals of dealing European Roulette with an emphasis on advanced conversions, progressive limits, neighbor bets, section bets, complete bets, overlapping maximums, finale bets, complete piece layouts, station payouts, mental computations, accuracy, game speed, and the importance of customer relations. Special attention given to the managerial aspects of European Roulette. Knowledge of 00 Roulette dealing procedures is strongly recommended for this course.

GAM 225 Introduction to Gaming Management 3 (3,0,0,0)
Overview of the casino; topics include the economics of the casino, its interface with the hotel, organizations and terminology.

GAM 235 Gaming Laws and Regulations 3 (3,0,0,0)
A survey of the laws and regulations pertaining to the gaming and hospitality industry. Specific emphasis include the history and development of Nevada gaming laws, regulations, and statutes, compliance requirements of gaming licensees, legal aspects pertaining to licensee/guest relations, labor laws, gaming crimes, tort laws, and liabilities of the licensee.

GAM 295 Work Experience in Casino/Gaming 1 (0,0,0,1)
In addition to the academic requirements, the Department of Hospitality Management requires 200 hours of acceptable employment in the hospitality industry. This work experience will be measured qualitatively as well as quantitatively. The work experience requirement should be met during the school year or in summers. Students who plan to transfer to UNLV will be able to transfer a maximum of 500 hours of employment toward UNLV’s 1000-hour employment requirement. International students must go to the office of International Student Services to verify employment eligibility and obtain authorization. This course can be repeated up to a maximum of four credits. Grade will be given upon verification of employment.

GEOG 106 World Geography 3 (3,0,0,0)
An analysis of the cultural regions of the world, physical settings, peoples, settlements, economic activities and historical and political factors.

GEOG 116 Oceanography 3 (3,0,0,0)
In this course we will explore our world’s oceans and the role of the ocean in the Earth’s system. Topics covered will include the flow and transformations of water and energy into and out of the ocean, the physical and chemical properties of seawater, ocean circulation, marine life and its adaptations, interactions between the ocean and the other components of the Earth system, and the human/societal impacts on and in response to Earth’s System interactions.

GEOG 299 Selected Topics in Physical Geography 1-6 (0,3-18,0,0)
Covers selected topics of interest to students in physical geography. Prerequisite: GEOG 101 or Instructor approval.

Geology

GEOL 100 Earthquakes, Volcanoes and Natural Disasters 3 (3,0,0,0)
Causes of natural disasters and their impact on people and property. Focuses on geological hazards such as earthquakes, volcanic eruptions, landslides, and floods.

GEOL 101 Geology: Exploring Planet Earth 4 (3,3,0,0)
Fundamentals of geology including mineral and rock origins through various earth processes. Laboratories include rock identification and interpretation of topographic and geologic maps. Required weekend field trips.

GEOL 102 Earth and Life Through Time 4 (3,3,0,0)
The history of Earth through geological time including methods used to recognize fossils and their significance. Laboratories involve paleontology methods, maps and fossil studies. Required weekend field trips. Prerequisite: GEOL 101 or equivalent.

GEOL 103 Physical Geology Laboratory 1 (0,1,0,0)
Designed to introduce basic techniques in identification of minerals and rocks, and in the reading and interpretation of topographic and geologic maps. Includes some field exercises. Prerequisite or Corequisite: GEOL 101.
**GEOL 105 Introduction to Geology of National Parks 3 (3,3,0,0)**
Geology of selected national parks and monuments in North America with emphasis on surface processes including the causes and effects of Pleistocene glaciation and major tectonic events that have shaped the topography of the United States and Canada.

**GEOL 299 Special Topics in Geology 1-5 (0,3-15,0,0)**
Covers selected topics of interest to students in the geological sciences.
Prerequisite: GEOL 101 or Instructor approval.

**German**

**GER 101B Conversational German I 3 (3,0,0,0)**
A course emphasizing spoken communication. Speaking, listening, reading and writing skills explored. German culture also emphasized.

**GER 102B Conversational German II 3 (3,0,0,0)**
A course emphasizing a continuation of the skills acquired in GER 101B. Increased fluency and further vocabulary development stressed.

**GER 107 German for Hotel, Restaurant and Tourism I 3 (3,0,0,0)**
Students with no prior knowledge of German who work in hotels, restaurants, or tourist settings learn to communicate effectively with their German-speaking clientele.

**GER 111 First Year German I 4 (4,0,0,0)**
The development of language skills in listening, speaking, reading, and writing. Emphasis is placed on communication in all four language acquisition skills.

**GER 112 First Year German II 4 (4,0,0,0)**
The further development of language skills in listening, speaking, reading, and writing. Emphasis is placed on more sophisticated communication in all four language acquisition skills.
Prerequisite: GER 111 or equivalent.

**GER 207 German for Hotel, Restaurant and Tourism II 2 (2,0,0,0)**
Students with previous knowledge of German in the area of hotel, restaurant and tourism increase their communication skills in their respective employment fields.
Prerequisite: GER 107.

**GER 211 Second Year German I 3 (3,0,0,0)**
Continuation of German language skills and intensive review of grammatical structures, listening, speaking, reading and writing skills through an introduction to German literary readings.
Prerequisite: GER 112 or equivalent.

**GER 212 Second Year German II 3 (3,0,0,0)**
Further amelioration and perfection of grammatical structures, listening, speaking, reading and writing skills through selected German literary readings.
Prerequisite: GER 211 or equivalent.

**GER 232 German Resistance to the Nazis and Hitler 3 (3,0,0,0)**
This course explores the various forms of resistance (religious, communist, union, socialist, military, and political) to National Socialism and Hitler during the Third Reich (1933-1945).

**Geographic Information Systems**

**GIS 109 Introduction to Geographic Information Systems 3 (3,0,0,0)**
This class serves as an introduction into Geographic Information Systems (GIS). This course covers the basic concepts of a GIS. Principles of cartography and spatial analysis will also be covered. The intent of this class is to prepare the student for advanced training using specific GIS software packages.
Prerequisite: IS 100B or IS 101.

**Global Studies**

**GLO 101 Introduction to Global Studies 3 (3,0,0,0)**
This course explores globalization and analyzes issues with global implications through a myriad of academic and theoretical frameworks.

**GLO 222 Terrorism and Political Violence 3 (3,0,0,0)**
This interdisciplinary course focuses on the motivation for terrorism and political violence. It addresses the question, “What makes an otherwise ordinary person deliberately attack unarmed civilians who have personally done the perpetrator no wrong and are in no position to redress the perpetrator’s grievances?” (Same as PSC 222).

**GLO 295 Topical Issues In Global Studies 1-3 (1-3,0,0,0)**
This course explores an issue of current interest in global studies. The topic is chosen by the instructor. Can be repeated for up to 6 credits with Department Chair approval.

**GLO 299 Capstone in Global Studies 3 (0,0,0,3)**
The capstone in global studies involves students conducting an individual research project designed in cooperation with the course instructor and focused on a global issue.
Graphic Technology

GRC 101 Introduction to Graphic Communications 3 (2,2,0,0)
Broad-based foundation of fundamental theories, issues, concepts, terminologies and methodologies used for creative/design projects in the graphic communications and digital media industries. Entry course for students pursuing print, web, and/or multimedia careers.

GRC 103 Introduction to Computer Graphics 3 (2,2,0,0)
Hands-on approach to fundamental concepts, terminology, technology, and techniques for creating and editing basic bitmap and vector graphics, basic page assembly using industry-standard software and hardware.

GRC 104 Layout and Typography 3 (2,2,0,0)
Introduction to typography and digital page layout. Emphasis on typographical theory, terminology of traditional and digital processes, fundamentals of typographic design and layout, and design for publications and collateral.

GRC 107 Design Fundamentals 3 (2,2,0,0)
An introductory course in the application and appreciation of the basic principles and elements of design, including form, shape, value, space, color and composition.

GRC 110 Drawing and Illustration 2-3 (1-2,2,0,0)
Introductory class in developing techniques for visualizing and drawing images with an emphasis on the 2D drawing process using a variety of traditional media and techniques. Drawings are placed into digital design programs to create finished illustrations.

GRC 119 Digital Media 3 (2,2,0,0)
Introduction to the basic concepts of multimedia production using industry standard software. Topics include storyboarding, working with images, audio, video, motion graphics, animation, and outputting to various formats, for multiple uses, using different production processes and workflows. Completion of or concurrent enrollment in GRC 103 is recommended.

GRC 140 Print Production with InDesign 3 (2,2,0,0)
Mastering the industry-standard page layout application InDesign to produce single and multiple-page documents for print reproduction. Emphasis on the complete print production work flow using Adobe software to prepare and manage assets and to plan, design, and assemble layouts.
Prerequisites: GRC 101 and GRC 103 and GRC 104.

GRC 156B Design with Illustrator 3 (2,2,0,0)
Thorough exploration of a bézier-curve based application as a professional illustration and design tool. Hands-on projects using Adobe Illustrator.
Prerequisite: GRC 103.

GRC 158 Cartooning 3 (2,2,0,0)
Cartooning characters, newspaper comics, editorials, caricatures, and mascots denoting humorous people and situations.

GRC 165B Digital Painting 3 (2,2,0,0)
The design and development of digital paintings for artistic expression and places of business. Working methods are examined through class demonstrations, discussions, readings, and projects using a variety of digital painting mediums and current technologies as tools.
Prerequisite: GRC 103.

GRC 175B Web Design I 3 (2,2,0,0)
Designing and developing websites using HTML, CSS, and software production tools. Emphasis on the design, usability, and features of website development and production processes.
Prerequisite: GRC 103.

GRC 179 Multimedia Design and Production I 3 (2,2,0,0)
Overview of Multimedia design and development. Emphasis on how to design real world interactive projects that combine text, graphics, animation, audio, video, and more. Hands-on projects using popular multimedia authoring software for publishing to CD, DVD, and the Web.
Prerequisite: GRC 119.

GRC 183B Design with Photoshop 3 (2,2,0,0)
Thorough exploration of continuous tone images and bitmap graphics using Adobe Photoshop. Hands-on projects working with digital photographs, image correction, manipulation, compositing, scanning and illustrative design. Explores the tools and features of the industry standard application.
Prerequisite: GRC 103.

GRC 185 Computer Animation I 3 (2,2,0,0)
Beginning 3D animation for multimedia, including modeling, lighting, rendering, and project management. Emphasis on creating content for multimedia, importing 3D files into common authoring programs and publishing to the Web.
Prerequisite: GRC 119.

GRC 188 Web Animation I 3 (2,2,0,0)
Creating and publishing animations for the web using industry standard software. Students create multimedia content incorporating graphics, animations, audio, and video.

GRC 205 History of Design 3 (2,2,0,0)
An introduction to the evolution of design with emphasis on acquiring knowledge of the basic visual and conceptual skills necessary for understanding the relationship among design, its audience, contexts, and technology.
Prerequisites: GRC 101 and GRC 103 and GRC 104 and GRC 107.
GRC 207  Electronic Design  3 (2,2,0,0)
Basic design concepts, principles, and methodology for effective visual communications in print and multimedia. Class projects involve using the computer exclusively as the tool for preparing design materials and/or as the final medium.
Prerequisites: GRC 104 and GRC 107 and GRC 119.

GRC 256B  Advanced Design with Illustrator  3 (2,2,0,0)
Advanced digital illustration techniques with emphasis on special projects and graphic solutions using Adobe Illustrator. Students learn techniques that enable and support the application of art and design theories, visual storytelling, the semiotics of visual representations, and other approaches to practice.
Prerequisite: GRC 156B.

GRC 275B  Web Design II  3 (2,2,0,0)
Intermediate to advanced techniques for designing and developing websites using HTML and CSS. Continued study of design and usability to produce real world projects. Emphasis on site production process, project management, interactive CSS techniques, search engine optimization, and more.
Prerequisite: GRC 175B.

GRC 276B  Web Design III  3 (2,2,0,0)
Designing and developing interactive websites using advanced HTML, CSS, and JavaScript. Advanced technologies and methodologies will be covered. Emphasis on the design, usability, and features of website development and production processes.
Prerequisite: GRC 275B.

GRC 278B  Advanced Design and Production  3 (2,2,0,0)
Apply visual communication solutions to business communications needs for real client project demands and deadlines, demonstrating advanced design theory, presentation, file preparation, and industry-standard design and print production workflow skills.
Prerequisites: GRC 140 and GRC 156B and GRC 183B and GRC 207.

GRC 286B  Digital Video Post-Production  3 (2,2,0,0)
Creating and publishing motion graphics using popular video post production software. Students learn to author motion graphics combining graphics, text, animation, audio, video and more. Students create and publish highly visual programs usable with digital video, common authoring programs, and the web.
Prerequisite: PHO 220B.

GRC 288B  Web Animation II  3 (2,2,0,0)
Intermediate and advanced techniques for creating animations for the web using industry standard software. Students create multimedia content incorporating graphics, animations, interactivity, audio, and video.
Prerequisite: GRC 188.

GRC 289B  Special Projects in Graphic Communications  1-3 (0,0,5-15)
Students work on individual design and communications projects under the direction of a faculty advisor; projects, provided by real world businesses and organizations, relate to the student’s selected major emphasis.
Prerequisite: 21 GRC course credits.

GRC 290  Internship in Graphic Communications  1-8 (0,0,5-40)
Supervised work experience within a selected graphic communications firm, dependent upon student’s major emphasis. Designed by company official and faculty advisor to apply knowledge to on-the-job situation. Available to students entering their last semester of instruction for degree. Contact department for applications, screening and required skills evaluation.

GRC 294B  Portfolio Prep  3 (2,2,0,0)
Development of a customized, professional portfolio for prospective clients and employers. Students will create a résumé, corporate identity, stationery system, leave behind package, and online and offline brand presence. Emphasis on basic marketing tactics and developing, designing and producing a custom portfolio that will showcase strengths and skills.
Prerequisites: GRC 101 and GRC 103 and GRC 104 and GRC 107 and GRC 119 and GRC 207.

Greek

GRE 111  First Year Modern Greek I  4 (4,0,0,0)
A course emphasizing the development of language skills in listening, speaking, reading and writing. Emphasis is placed on communication in all four language skills.

Health and Human Performance

HHP 110B  Introduction to the Health Professions  3 (3,0,0,0)
This course is designed to provide the student with a survey of the various health careers and subject matter involving the health field today.

HHP 123B  Introduction to the Human Body  4 (4,0,0,0)
Introductory study of the structural and functional characteristics of the human body and their relationships to health and disease.

HHP 124B  Introduction to the Human Body Computer Lab  1 (0,2,0,0)
A computer-based laboratory course designed to complement instruction in HHP 123B. Students required to take the lab must do so concurrently with HHP 123B.
HHP 150 Living Healthy and Well 3 (3,0,0,0)
This course is a study of healthy living principles as they apply to adult life. Emphasis is placed on the recognition of and prevention of individual decisions that affect one’s overall health.

HHP 190 Exercise, Nutrition and Weight Control 3 (3,0,0,0)
A basic overview of principles of fitness as they apply to exercise and good nutrition. Emphasis will be placed on the practical application of sound exercise and eating habits and the development of a personalized fitness program. This course is designed for the average person who wishes to gain the knowledge necessary for improved health.

HHP 201B Stress Management 2 (2,0,0,0)
An overview of stress, its manifestations, and methods of managing it. Particular emphasis will be placed on the role of exercise in controlling stress and the development of a balanced life-style.

HHP 203B Sports Nutrition 3 (3,0,0,0)
A course designed for the fitness professional that explores the link between nutrition, energy metabolism, and exercise. Optimizing exercise performance and making prudent decisions in the nutrition marketplace will be discussed.

HHP 206B Prevention and Care of Exercise Injuries 2 (2,0,0,0)
Overview of safety and injury management for the fitness professional. Includes injury prevention, safe use of exercise equipment, contraindicated exercise, facility safety requirements and liability issues.

HHP 213 Healthy Aging 4 (4,0,0,0)
A course designed to address the factors affecting the health and fitness status of an individual as that person progresses from early to late adulthood. Recognition and prevention of health and personal fitness problems will be emphasized.

HHP 227B Topics in Alternative Medicine 1 (1,0,0,0)
An examination of modern definitions of health; a comparison of traditional and alternative health care; an overview of alternative choices; trends in health care. May be repeated up to a maximum of three credits.

HHP 291 First Aid 2 (2,0,0,0)
Study of various emergency medical problems and their management by application of basic first aid and cardiopulmonary resuscitation.

History

HIST 101 U.S. History to 1877 3 (3,0,0,0)
A survey of United States political, social, economic, diplomatic, and cultural development from colonial times to 1877. Satisfies the United States Constitution requirement. HIST 101 and HIST 102 need not be taken in sequence; either class may be taken alone.
Prerequisite: ENG 100 or 101 or 101H or 113 with a grade of C or better.

HIST 101H U.S. History to 1877 – Honors 3 (3,0,0,0)
An Honors-level survey of United States political, social, economic, diplomatic, and cultural development from colonial times to 1877. This course emphasizes interactive and independent learning through readings, discussion, and writing. Satisfies the United States Constitution requirement. HIST 101H and HIST 102H need not be taken in sequence; either class may be taken alone.
Prerequisite: ENG 100 or 101 or 101H or 113; and admission to the Honors program.

HIST 102 U.S. History Since 1877 3 (3,0,0,0)
A survey of United States political, social, economic, diplomatic, and cultural development from 1877 to present. Satisfies the Nevada Constitution requirement. HIST 101 and HIST 102 need not be taken in sequence; either class may be taken alone.
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C or better.

HIST 102H U.S. History Since 1877 – Honors 3 (3,0,0,0)
An Honors-level survey of United States political, social, economic, diplomatic, and cultural development from 1877 to present. This course emphasizes interactive and independent learning through readings, discussion, and writing. Satisfies the Nevada Constitution requirement. HIST 101H and HIST 102H need not be taken in sequence; either class may be taken alone.
Prerequisites: ENG 100 or ENG 101 or ENG 101H or ENG 113 and admission to the Honors program.

HIST 105 European Civilization to 1648 3 (3,0,0,0)
A survey of the development of Western civilization from the dawn of history to 1648.

HIST 106 European Civilization Since 1648 3 (3,0,0,0)
A survey of the development of Western civilization from 1648 to the present.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 107</td>
<td>Women in American History</td>
<td>3</td>
<td>A study of the role of women in the creation of America. Includes a look at legal status, life style and the unique status of minority women.</td>
</tr>
<tr>
<td>HIST 111</td>
<td>Survey of U.S. Constitutional History</td>
<td>3</td>
<td>Origins and history of the United States Constitution; surveys the development of American judicial interpretations and institutions. Satisfies the U.S. Constitutions requirement.</td>
</tr>
<tr>
<td>HIST 150</td>
<td>Introduction to Chinese Civilization</td>
<td>3</td>
<td>An introductory survey of the growth and development of Chinese civilization with an emphasis on philosophy, literature, society and political development from 2200 B.C. to the present.</td>
</tr>
<tr>
<td>HIST 151</td>
<td>Introduction to Japanese Civilization</td>
<td>3</td>
<td>An introductory survey of the growth and development of Japanese civilization with an emphasis on philosophy, literature, society and political development from 8000 B.C. to the present.</td>
</tr>
<tr>
<td>HIST 202</td>
<td>American Military History</td>
<td>3</td>
<td>U.S. military history from the colonial period onward emphasizing war strategies, military thought, and policy in the armed forces and American society.</td>
</tr>
<tr>
<td>HIST 208</td>
<td>World History I</td>
<td>3</td>
<td>A survey of the societies and cultures of Asia, Africa, the Middle East, Europe, the Americas, and Oceania to 1600.</td>
</tr>
<tr>
<td>HIST 209</td>
<td>World History II</td>
<td>3</td>
<td>A review of the principal developments in world history since 1600, including scientific and technological revolutions, social revolutions, nationalism, immigration, colonialism, world wars, decolonization, modernization, democracy, and dictatorships.</td>
</tr>
<tr>
<td>HIST 210</td>
<td>Southwest Heritage</td>
<td>3</td>
<td>A study of the American Southwest and its cultures placed in historical perspective.</td>
</tr>
<tr>
<td>HIST 217</td>
<td>Nevada History</td>
<td>3</td>
<td>A study of Nevada from early exploration to the present. Satisfies the Nevada Constitution requirement. Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C or better</td>
</tr>
<tr>
<td>HIST 217H</td>
<td>Nevada History – Honors</td>
<td>3</td>
<td>An Honors-level survey of Nevada from early exploration to the present. This course emphasizes interactive and independent learning through readings, discussion, and writing. Satisfies the Nevada Constitution requirement. Prerequisites: ENG 100 or ENG 101 or ENG 101H or ENG 113 and admission to the Honors program.</td>
</tr>
<tr>
<td>HIST 220</td>
<td>History of Las Vegas</td>
<td>3</td>
<td>An introduction to Las Vegas from prehistoric times to the present, emphasizing recent developments.</td>
</tr>
<tr>
<td>HIST 227</td>
<td>Introduction to Latin American History and Culture I</td>
<td>3</td>
<td>Survey of the development of Spain and Portugal as colonizing powers, the discovery and conquest of America, and the growth of political, social, and economic institutions during the Colonial Period.</td>
</tr>
<tr>
<td>HIST 228</td>
<td>Introduction to Latin American History and Culture II</td>
<td>3</td>
<td>Survey of Latin American independence movements, the major Latin American republics, and Latin American indigenous history and culture.</td>
</tr>
<tr>
<td>HIST 247</td>
<td>Introduction to the History of Mexico</td>
<td>3</td>
<td>An introduction to pre-Columbian Mexico, Colonial New Spain and Mexican National History to the present.</td>
</tr>
<tr>
<td>HIST 250</td>
<td>Introduction to the Study of History</td>
<td>3</td>
<td>Introduction to the research methods commonly used by historians. Practical application of these methods to everyday life is emphasized.</td>
</tr>
<tr>
<td>HIST 251</td>
<td>Introduction to Historical Methods</td>
<td>3</td>
<td>Introduction to the basic concepts and techniques of historical investigation and writing. This course is writing intensive and is intended for students majoring in history or related disciplines. Prerequisite: Department Chair approval.</td>
</tr>
<tr>
<td>HIST 260</td>
<td>Introduction to Native American History</td>
<td>3</td>
<td>An examination of significant events and trends in Native American life. The course will focus on the contributions made by American Indians to the development of our history and contemporary society.</td>
</tr>
<tr>
<td>HIST 275</td>
<td>The Wild West – Myth and Reality</td>
<td>3</td>
<td>Designed to acquaint the student with the history of the American West, the course will topically examine and compare the often romanticized themes of early novels and Hollywood films with the harsh reality of frontier life. The topics that may be examined include the Spanish Southwest, the fur trapping mountain men, the Indians and the army, outlaws, the mining men, cattle, timber, and farming frontiers, and the introduction of capitalism and large scale industrialization.</td>
</tr>
</tbody>
</table>
HIST 285 History of Witchcraft 3 (3,0,0,0)
The study of the figure of the witch from ancient times to the present, and the historical, religious and social context from which it emerged. The course includes Paleolithic and Neolithic religion, witches in ancient cultures, formulation of the Christian witch concept, the witch hunt in Early Modern Europe and in the British North American colonies, and modern Neo-Pagan witchcraft. (Same as WMST 285.)

HIST 286 Goddess Traditions 3 (3,0,0,0)
A study of goddess images in a variety of cultures from prehistory to the modern age including the history, values, beliefs, practices and ethics systems associated with goddess imagery. (Same as WMST 286.)

HIST 293 Introduction to African-American History I 3 (3,0,0,0)
Survey of the history of African Americans from their origins on the west coast of Africa to the present.

HIST 295 Special Topics in History 1-3 (1-3,0,0,0)
Study of a selected issue or topic of significance in history. The particular topic will vary, however, the intent of the study will be to develop an awareness of and appreciation for the complex forces which have shaped the modern world. Material for the study will be drawn from a wide variety of sources and may be interdisciplinary in nature. The course may be repeated up to a total of six credits, with the permission of the Department Chair.
Prerequisite: Department Chair approval.

HIST 299 Internship 3 (2,0,0,6)
Supervised work experience with selected community businesses. Complete 30 credit hours, minimum 2.5 GPA.
Prerequisites: Department Chair approval; 15 HIST credits including HIST 101 and HIST 102 and HIST 217.

HIT 102B Coding for Medical Offices 2 (1,3,0,0)
Introduction to ICD and CPT coding as they relate to the medical office setting.
Corequisite: HIT 118B.

HIT 103B Customer Service Skills in a Healthcare Setting 1 (1,0,0,0)
Develop and practice customer service skills for a healthcare setting.

HIT 105B Introduction to Health Information Management 3 (2,3,0,0)
An introduction to the organization, cultural issues, ethics, health-care policies, external regulations and standards, security and integrity of health data, and interrelationships within the healthcare delivery system.

HIT 106B Healthcare Reimbursement 2 (2,0,0,0)
An introduction to the complex financial and reimbursement systems of the healthcare environment. This course includes the basics of health insurance, publicly funded programs, managed care, the revenue cycle, and legal issues impacting the billing process.

HIT 107B Patient Registration Practicum 2 (0,0,8,0)
Provides the student with practical experience in performing patient registration duties. The practicum assignments are eighty (80) hours in a hospital admitting department. Graded Pass/Fail.
Corequisite: HIT 106B.

HIT 108B Interpersonal Communication Skills in the Health Care Setting 3 (3,0,0,0)
Designed for the development and practice of a set of interpersonal and human relation skills as needed among health care providers.

HIT 117B Medical Terminology I 1 (1,0,0,0)
Study of word derivations and formation with emphasis upon understanding common usage in the field of health care.

HIT 118B Language of Medicine 3 (3,0,0,0)
Analysis of medical language by body system; and creating, defining, and applying common medical terms related to anatomy, disease processes, diagnostic procedures, laboratory tests, abbreviations, and therapeutic procedures.

HIT 119B Introduction to Pharmacology and Laboratory Tests 2 (2,0,0,0)
Advanced application of medical language specific to clinical specialties including pharmacology, laboratory, and diagnostic testing. Emphasizes understanding of the action of drugs, including the absorption, distribution, metabolism and excretion of drugs by the body, and mathematical calculation to solve medication dosage problems, and convert between different systems of measurement.
Prerequisite: HIT 118B.

HIT 120B Medical Transcription I 4 (2,6,0,0)
Basic medical transcription skills.
Corequisites: HIT 118B and ENG 100; or ENG 101; or satisfactory performance on English placement test and COT 200.

HIT 122B Medical Transcription II 5 (1,6,6,0)
Advanced medical transcription skills. Graded Pass/Fail.
Prerequisite: Instructor approval.
HIT 130B Procedural Terminology 1 (1,0,0,0)
Basic study of medical terminology used in the procedural coding classification system. Analysis of standardized vocabulary of surgical concepts, body part terms, operative approaches, devices, and other qualifiers from which codes are built.
Corequisite: HIT 118B.

HIT 165B Pathophysiology 4 (4,0,0,0)
Introduction to the disease processes affecting the human body by an integrated approach to specific disease entities, including the study of causes, diagnoses, and treatment of disease.
Prerequisite: BIOL 223 or HHP 123B.

HIT 170B Healthcare Computer Applications 3 (2,3,0,0)
This course develops students’ knowledge and skills in hardware and software components of computers for healthcare applications. The students will also explore methods of controlling the accuracy and security of data in computer systems, record linkage and data sharing concepts, and information systems in healthcare.
Prerequisites: COT 127B with a grade of C or better.

HIT 184B Introduction to ICD Coding 2 (1,3,0,0)
Principles and application of the ICD coding system with emphasis on diagnosis coding, including analysis of the organization and classification of all chapters, evaluation of current coding and documentation guidelines, and introduction to physician queries.
Prerequisites: HHP 123B and 124B and HIT 118B and HIT 165B all with a grade of C or higher.

HIT 185B Introduction to CPT Coding 3 (2,3,0,0)
Principles and application of procedural coding systems using CPT and HCPCS Level II including basic introduction to APCs, the NCCI, Medicare’s LCDs and NCDs, encoders, and automated coding concepts.
Prerequisites: HHP 123B and HHP 124B and HIT 118B and HIT 165B all with a grade of C or higher.

HIT 186B Advanced Outpatient Coding 2 (1,3,0,0)
Principles and application of coding systems utilized for outpatient healthcare facilities and physician coding using ICD, CPT, and HCPCS Level II. Emphasizes use of encoders; assigning codes to complex case studies; auditing more complex codes including evaluation and management, radiology, laboratory, and surgical; and introducing the student to APC code assignment.
Prerequisites: HIT 119B and HIT 165B and HIT 184B and HIT 185B all with a grade of C or higher.

HIT 187B Introduction to ICD-PCS Coding 2 (1,3,0,0)
Principles and application of the ICD procedural coding system (PCS), including analysis of the seven character structure, the organization and classification within all sections, evaluation of coding guidelines, documentation guidelines, and assigning ICD procedural codes.
Prerequisites: HHP 123B and HHP 124B and HIT 130B and HIT 165B.

HIT 201B Advanced Coding Systems 3 (2,3,0,0)
In-depth study and practice assigning valid diagnosis and procedure codes utilizing both code books and encoder/grouper software; compliance and auditing; and review of other classification systems.
Prerequisites: HIT 184B and HIT 185B and HIT 187B.

HIT 205B Privacy, Legal, and Ethical Issues in Healthcare 2 (1,3,0,0)
In-depth study of patient privacy and confidentiality of health information. Review of legal responsibilities of healthcare workers and facilities with emphasis on HIM. Health professional ethics issues are discussed and evaluated.

HIT 206B Professional Practice Experience I 3 (0,0,10,0)
Practical experience in a healthcare setting performing and observing health information management departmental duties. Graded Pass/Fail.
Corequisite: HIT 205B.

HIT 207B Health Information Management 2 (1,3,0,0)
Study of organizational systems with emphasis on strategic management; and human, financial, and physical resources as related to health information management.
Prerequisite: Acceptance into HIT Program.

HIT 208B Professional Practice Experience II 2 (0,0,6,0)
Practical experience in developing HIM departments including departmental policies, procedures, job descriptions, budgets, and functional spaces according to regulation and health information needs. Performed within a team environment using project management resources. Graded Pass/Fail.
Prerequisite: HIT 206B.

HIT 210B Coding Practice Experience 3 (0,0,12,0)
Practical coding experience in a hospital, physician’s office, clinic, other healthcare setting, or simulated environment including directed projects common to a clinical coding specialist on the job. Graded Pass/Fail.
Prerequisite: HIT 201B and HIT 186B both with a grade of C or higher.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>HIT 240B</td>
<td>Healthcare Statistics and Research</td>
<td>1</td>
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<tr>
<td>HIT 245B</td>
<td>Healthcare Quality Management</td>
<td>2</td>
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<tr>
<td>HIT 290B</td>
<td>RHIT Exam Prep</td>
<td>2</td>
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<tr>
<td>HIT 291B</td>
<td>Coding Exam Prep</td>
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<td>HIT 299B</td>
<td>Selected Topics in Health Information Technology</td>
<td>2</td>
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<td>HMD 101</td>
<td>Introduction to the Hospitality Industry</td>
<td>3</td>
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<tr>
<td>HMD 202</td>
<td>Housekeeping Operations</td>
<td>3</td>
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<tr>
<td>HMD 203</td>
<td>Front-Office Operations</td>
<td>3</td>
<td>Instructor approval.</td>
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<tr>
<td>HMD 226</td>
<td>Industry Computer Applications for Hospitality and Tourism</td>
<td>3</td>
<td>Instructor approval.</td>
</tr>
<tr>
<td>HMD 235</td>
<td>Hotel, Restaurant and Gaming Law</td>
<td>3</td>
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<tr>
<td>HMD 253</td>
<td>Hospitality Services Management</td>
<td>3</td>
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<tr>
<td>HMD 259</td>
<td>Human Resources Management in the Hospitality Industry</td>
<td>3</td>
<td>Instructor approval.</td>
</tr>
<tr>
<td>HMD 295</td>
<td>Work Experience in Lodging Operations</td>
<td>1</td>
<td>Instructor approval.</td>
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</tbody>
</table>

**HIT 240B  Healthcare Statistics and Research 1 (0,0,0)**
Computation and interpretation of healthcare statistics. Introduction to knowledge-based techniques and guidelines regarding research and IRB processes.
Prerequisite: Instructor approval.

**HIT 245B  Healthcare Quality Management 2 (0,0,0)**
Methodologies for conducting quality improvement activities including creating collection processes, analyzing trends, and presenting graphics and data to guide strategic and organizational planning.
Prerequisite: Instructor approval.

**HIT 290B  RHIT Exam Prep 2 (0,0,0)**
This course is a review of HIM topics covered in the HIT Program. It is designed to prepare students for the national certification examination. Graded Pass/Fail.
Prerequisite: Instructor approval.

**HIT 291B  Coding Exam Prep 2 (0,0,0)**
This course is a review of coding topics covered in the Medical Coding Program. It is designed to prepare students for the American Health Information Management Association’s (AHIMA) national coding certification examination.
Prerequisite: Instructor approval.

**HIT 299B  Selected Topics in Health Information Technology 2 (0,0,0)**
Selected study in topics of interest to students of health information technology. Graded Pass/Fail.
Prerequisite: Instructor approval.

**HMD 101  Introduction to the Hospitality Industry 3 (0,0,0)**
Survey of the history, likely direction, and dynamics of the hospitality industry from the perspective of the global economy, with emphasis on the wide variety of career opportunities.
Prerequisite: HMD 101 with a grade of C or higher.

**HMD 203  Front-Office Operations 3 (0,0,0)**
Study of front-office procedures from reservations through check-out including the night audit and the property management system and their impacts on other lodging operations. Special emphasis is placed on guest-employee relations.
Prerequisites: HMD 101; and ENG 100 or ENG 101 or ENG 113.

**HMD 226  Industry Computer Applications for Hospitality and Tourism 3 (0,0,0)**
Survey of computer applications, issues, and trends in the hospitality industry. Emphasis placed on the role of technology in operations and management of technology as a strategy.
Prerequisite: HMD 101.

**HMD 235  Hotel, Restaurant and Gaming Law 3 (0,0,0)**
Legal aspects of the innkeeper/guest relationship with particular attention to personal liability, property liability, labor law, crimes, torts, evictions, negligence, administrative agencies and gaming regulations.
Prerequisites: HMD 101; and ENG 102 or ENG 114.

**HMD 253  Hospitality Services Management 3 (0,0,0)**
Exploration of how services are different from goods, service procedures for various functional areas of hospitality, and how key factors contribute to service quality and guest satisfaction in services.
Prerequisites: HMD 101; and ENG 100 or ENG 110 or ENG 111.

**HMD 259  Human Resources Management in the Hospitality Industry 3 (0,0,0)**
Recruitment, selection, compensation, training, and performance appraisal of employees and managers in the hospitality industry’s culturally diverse work place.
Prerequisites: HMD 101; and ENG 100 or ENG 101 or ENG 113.

**HMD 295  Work Experience in Lodging Operations 1 (0,0,0,0)**
In addition to the academic requirements, the Department of Hospitality Management requires 200 hours of acceptable employment in the hospitality industry. This work experience will be measured qualitatively as well as quantitatively. The work experience requirement should be met during the school year or in summers. Students who plan to transfer to UNLV will be able to transfer a maximum of 500 hours of employment toward UNLV’s 1000-hour employment requirement. International students must go to the office of International Student Services to verify employment eligibility and obtain authorization. This course can be repeated up to maximum of four credits. Grade will be given upon verification of employment.
Human Services

HMS 101B Introduction to Human Services 3 (3,0,0,0)
An introductory course identifying the multifold programs and activities of social welfare and helping services and their key role in modern society; observation and reporting techniques emphasized.

HMS 102B Introduction to Counseling 3 (3,0,0,0)
Designed to provide an overview of the historical, philosophical and theoretical foundations of counseling. Students will examine the counselor as a person and explore the role of self-awareness in the field of counseling.

HMS 103B Creative Self Awareness 3 (3,0,0,0)
Course includes clarifying values, setting goals, exploring self, expanding options, overcoming barriers, working effectively, enhancing relations, planning and decision making.

HMS 104B Small Group Interaction Techniques 3 (3,0,0,0)
Introduces the student to the theories and techniques which relate to working with individuals. Personality theories presented in terms of their applicability to change processes.

HMS 106B Human Services Practicum I 3 (0,0,0,8)
Human Services work experience. The student works in a helping services facility eight hours a week under the supervision of a facility employee to gain practical work experience.
Prerequisites: HMS 102B and HMS 103B and HMS 130 and HMS 265B.

HMS 107B Community Resources in Human Services 3 (3,0,0,0)
A course designed to acquaint the student with resources available for substance abuse programs.

HMS 116B Substance Abuse 3 (3,0,0,0)
Explores the emergence of substance abuse as a sociological and cultural phenomenon in the United States. Identifies the development in legal policy, social history and the treatment and research dimensions.

HMS 130 Human Sexuality 3 (3,0,0,0)
Designed to provide each student with the necessary biological, historical, psychological and sociological perspective for personal positive changes. Provides a forum for discussion on issues of common concern.

HMS 135B Cross Cultural Relations 3 (3,0,0,0)
A study of American Ethnic groups within contemporary American society. A practical “road map” leading to an overall picture of the complexity of the problems facing the United States society in attempting to alleviate the continuing social problems of cultural ethnic relations.

HMS 152B Divorce Adjustment 3 (3,0,0,0)
Designed to help people adjust to divorce and build their new life styles and systems in a positive creative way.

HMS 206B Human Services Practicum II 3 (0,0,0,8)
Human Services work experience. The student works in a helping services facility eight hours a week under the supervision of a facility employee to gain practical work experience.
Prerequisite: HMS 106B.

HMS 265B Death and Dying 3 (3,0,0,0)
Designed to provide the student with the necessary information to both understand and cope with the social processes of dying, death and bereavement from an academic as well as a personal perspective.

HMS 266B Mind/Body Health 3 (3,0,0,0)
This class explores the many approaches to healing and maintaining wellness of the mind, body and spirit. Lectures, guest teachers and videos will be used in this interesting experiential class.

HMS 267B Solutions for Stress 3 (3,0,0,0)
This course deals with how stress affects health and quality of life and will be complimented by addressing methods of coping with stress in all areas of life. Exercise, nutrition, interpersonal skills and Eastern and Western forms of relaxation will be addressed.

HMS 268B Developing Self-Esteem 3 (3,0,0,0)
This course will help students enrich their lives, and increase their happiness. Students will learn how to identify personal problems and how to effectively change their lives for the better. The course includes both group and experimental exercises.

HMS 295B Work Experience I 1-4 (0,0,0,1-4)
Cooperative Education courses designed to provide the student with on-the-job supervised and educationally directed work experience.

HMS 296B Work Experience II 1-4 (0,0,0,1-4)
Cooperative Education courses designed to provide the student with on-the-job supervised and educationally directed work experience.

HMS 297B Work Experience III 1-4 (0,0,0,1-4)
Cooperative Education courses designed to provide the student with on-the-job supervised and educationally directed work experience.

HMS 298B Work Experience IV 1-4 (0,0,0,1-4)
Cooperative Education courses designed to provide the student with on-the-job supervised and educationally directed work experience.
### Humanities

**HUM 295H**  
**Issues in Humanities - Honors**  
3 (3,0,0,0)

Cross-disciplinary topics. Repeatable to a maximum of six credits.  
Prerequisite: ENG 100 or ENG 101 or ENG 101H or ENG 113 with a grade of C or higher; or Instructor approval; and Admission to the Honors program.

**HUM 298**  
**Phi Theta Kappa Honors Topic**  
3 (3,0,0,0)

The Honors Study Topic course is dedicated to the examination and illumination of the Phi Theta Kappa Honors Study Topic – providing ideas for scholastic enrichment. Open for general registration; may be taken twice for credit.

### Interior Design

**INTD 105B**  
**History of Furniture and Interiors I**  
3 (3,0,0,0)

A study of the history of furniture and interiors from antiquity to the nineteenth century.

**INTD 106B**  
**History of Furniture and Interiors II**  
3 (3,0,0,0)

A study of furniture and interiors from the nineteenth century to the present.  
Prerequisite: INTD 105B.

**INTD 216**  
**Textiles**  
3 (2,2,0,0)

Consumer orientation to textiles. Serviceability, concepts of durability, care, comfort and aesthetic appearance are used to evaluate textiles alternatives for various end uses.

**INTD 218B**  
**Methods and Materials**  
3 (2,2,0,0)

A study of interior furnishings, materials, processes and applications.

**INTD 255B**  
**Interior Design Studio I**  
3 (2,2,0,0)

Application of design concepts of interior spaces. Short exercises precede residential projects.  
Prerequisites: INTD 216.

**INTD 257B**  
**Interior Design Studio II**  
3 (2,2,0,0)

Advance problem solving in interior design.  
Prerequisites: INTD 218B and INTD 255B.

**INTD 258B**  
**Business Practices**  
3 (3,0,0,0)

This course is an overview of interior design business principles and practices.  
Prerequisite: INTD 255B.

### Information Systems

**IS 100B**  
**Core Computing Competency**  
0 (0,0,0,0.25)

This course verifies a student’s core computing competencies. Knowledge and skills will be tested in the areas of computing fundamentals, key applications, and the Internet at current collegiate/professional levels. Students must pass all required exams to earn an internationally recognized digital literacy certification to pass the course. Students should have strong knowledge and skills in the specified computing areas. Graded Pass/Fail.

**IS 101**  
**Introduction to Information Systems**  
3 (3,0,0,0)

Concepts and applications of Information Systems. Introduction to hardware, software, data, and file concepts. Microcomputer applications software including word processing, spreadsheet, database, Internet, and presentation software.

**IS 115**  
**Introduction to Programming**  
3 (3,0,0,0)

This course introduces the student to problem-solving and algorithm development using a modern programming language. Students should have basic computer skills.  
Prerequisite: MATH 95 or above with a grade of C or higher; or ET 111B with a grade of C or higher; or a satisfactory ACT/SAT/Placement Test score that places the student in MATH 96 or above.

**IS 389**  
**Advanced Business Systems Development**  
4 (3,2,0,0)

Advanced methodology of program design, development, testing, implementation, and documentation. Includes coverage of user requirements definition and translation into design specifications, use of database management systems, system maintenance, and various system development and life cycle methodologies and tools. Students should have programming experience.  
Prerequisite: IS 115 with a grade of C or higher; or any high level programming language.

### Italian

**ITAL 101B**  
**Basics of Italian I**  
3 (3,0,0,0)

A basic introduction to the Italian language and culture, this course emphasizes both oral and written communication through the development of listening, speaking, reading, and writing skills.

**ITAL 102B**  
**Conversational Italian II**  
3 (3,0,0,0)

A course emphasizing a continuation of skills acquired in ITAL 101B. Increased fluency and further vocabulary development stressed.  
Prerequisite: ITAL 101B.
ITAL 111  First Year Italian I  4 (4,0,0,0)
Designed to give students an introduction to the Italian language and culture, this course emphasizes both oral and written communication through the development of listening, speaking, reading, and writing skills.

ITAL 112  First Year Italian II  4 (4,0,0,0)
Designed as a continuation of Italian 111, this course prepares students to use Italian in an increasing variety of contexts by expanding on vocabulary and developing more complex sentence structures, with a focus on intercultural competence.

Prerequisite: ITAL 111 or Department approval.

ITAL 211  Second Year Italian I  3 (3,0,0,0)
This course prepares students to use Italian language in an increasing variety of contexts by expanding on vocabulary and sentence structure while developing paragraph-level writing. Further development of intercultural competence.

Prerequisite: ITAL 112 or Department approval.

ITAL 212  Second Year Italian II  3 (3,0,0,0)
This course prepares students to use Italian language in an increasing variety of contexts with increasing complexity. Further development of intercultural competence.

Prerequisite: ITAL 211 or Department approval.

ITAL 221  Italy and Its Culture  3 (3,0,0,0)
Introduction to Italian Culture and its influence on the World Community: a general examination of Italy’s physical, historical, political, and administrative identity. An introduction to and assessment of the contributions of its major achievers in various areas of human endeavor: Art, Religion, Science, etc. A glance at Italy’s popular culture as reflected in its films and other documents of contemporary daily life. Taught in English, no knowledge of Italian required.

Journalism

JOUR 100  Introduction to Journalism and Media Studies  3 (3,0,0,0)
This required course introduces prospective majors to the pragmatic, performative and presentational aspects of journalism and media studies.

JOUR 101  Critical Analysis of the Mass Media  3 (3,0,0,0)
Analysis of the development of newspapers, magazines, motion pictures, radio, and telecommunications. Overview of institutional structure and theoretical perspectives.

JOUR 102  News Reporting and Writing  3 (3,0,0,0)
Provides fundamental instruction and pre-professional practice in writing as a basis for upper-division courses in journalism and media studies. Analysis of news content and how news is obtained and written. Discussions and laboratory.

Prerequisite: ENG 100 or ENG 101 or ENG 113.

JOUR 105  News Production I  3 (3,0,0,0)
Introduction to news and features gathering, writing and presentation with practical application demonstrated in production of campus print publications, web pages and electronic programming (e.g. podcasts).

JOUR 121  Radio Production  3 (3,0,0,0)
A study and practical use of radio broadcast equipment, announcing techniques, programming concepts, functions of a disc jockey (DJ), and researching, writing and producing a newscast.

JOUR 201  Television Studio Production I  3 (3,0,0,0)
Study and training in basic television studio production for live or live-to-tape programming. Emphasis on producing and directing with training in various studio, control room, and engineering functions. Students are encouraged to take JOUR 220 either before or while taking this course.

JOUR 202  Electronic Media Production I  3 (3,0,0,0)
Lecture and lab for the study of and training in studio and field video production, basic post-production, and resource utilization across electronic platforms.

JOUR 204  Introduction to Media Production  3 (3,0,0,0)
Introduction to production tools and computer interfaces; emphasis on visual literacy, imaging, video and audio editing, Internet authoring, and creating multimedia documents.

JOUR 210  Introduction to Public Relations  3 (3,0,0,0)
Study of the practice of public relations including media, employee, consumer, community, shareholder, and customer relations. Emphasis is on the history of public relations, its role, and impact on today’s society.

JOUR 212  Principles of Advertising  3 (3,0,0,0)
Examination of the purpose, function, and role of advertising in society. Emphasis is on the practical application of advertising as part of the marketing mix including customer identification, branding, message development, and media selection.
JOUR 220  Fundamentals of Applied Media Aesthetics  3  (3,0,0,0)
Survey of the various fields that use visual imagery for communicative purposes. Graphic design, film, and televsional imagery covered. Emphasis on television and film aesthetics and picture composition.

JOUR 223  Contemporary Radio  3  (3,0,0,0)
Examination of the structure, programming, regulation, and problems of radio in today’s world and the role the medium plays in informing and entertaining modern listeners.

JOUR 241  News and the News Media  3  (3,0,0,0)
Survey of the history, purposes, functions, and effects of journalism.

JOUR 261  Introduction to IMC  3  (3,0,0,0)
Examination of the function of advertising and public relations in the media and society. Emphasis on the application of theory and its relationship to the IMC elements; public relations, advertising, promotion, direct marketing, interactive, and their ability to reach customers/publics.

JOUR 276  Design Principles of Advertising/Publications  3  (3,0,0,0)
History of design periods and styles. Introduction to five basic types of print advertising: periodicals, direct mail, point of purchase, sales-promotion, and merchandising.

JOUR 290  Internship in Journalism  1-3  (1-3,0,0,0)
A course for advanced journalism students that provides credit for professional experience under appropriate supervision. Can be repeated for a total of 6 credits.
Prerequisite: Approval of the station, newspaper, agency or firm where internshp will be completed and approval from the Department of Communication Internship Coordinator. (Same as COM 196.)

Japanese

JPN 101B  Conversational Japanese I  3  (3,0,0,0)
A course emphasizing spoken communication. Listening and speaking skills, and recognition of hiragana developed. Basic expressions applied to varieties of conversational contexts introduced.

JPN 102B  Conversational Japanese II  3  (3,0,0,0)
A second semester course designed to continue the development of conversational skills. Recognition of katakana scripts also developed.
Prerequisite: JPN 101B.

JPN 111  First Year Japanese I  4  (4,0,0,0)
The development of language skills in listening, speaking, and writing.

JPN 112  First Year Japanese II  4  (4,0,0,0)
A second semester course designed to continue and improve the skills learned in JPN 111.
Prerequisite: JPN 111.

JPN 120  Kanji and Japanese Vocabulary I  2  (2,0,0,0)
Elementary level kanji course designed to teach writing of JPN 111 and JPN 112 vocabulary and bring students to the level of passing Kanji Kentei 10-kyu Exam.
Prerequisite: JPN 111 or Departmental approval.

JPN 121  Kanji and Japanese Vocabulary II  2  (2,0,0,0)
A continuation of Kanji and Japanese Vocabulary I designed to teach kanji at the level of Kanji Kentei 9-kyu Exam and vocabulary that utilizes 240 kanji.
Prerequisite: JPN 120 or Departmental approval.

JPN 211  Second Year Japanese I  3  (3,0,0,0)
Designed to continue the development of language skills in listening, speaking, reading and writing. Contextual studies.
Prerequisite: JPN 211.

Korean

KOR 101B  Conversational Korean I  3  (3,0,0,0)
A course emphasizing spoken communication. Speaking skills, oral and listening skills, reading and writing skills explored. A vocabulary of Korean-English words developed.

KOR 102B  Conversational Korean II  3  (3,0,0,0)
Students will continue to develop speaking, oral and listening skills and vocabulary.
Prerequisite: KOR 101B.

KOR 111  First Year Korean I  4  (4,0,0,0)
The development of language skills in listening, speaking, and writing. Oral emphasis.
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<td>KOR 211</td>
<td>Second Year Korean I</td>
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<td>KOR 212</td>
<td>Second Year Korean II</td>
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**Latin American Studies**

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<td>LAS 100</td>
<td>Introduction to Latina/o Studies</td>
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<td>LAS 101</td>
<td>Introduction to Latin American Studies</td>
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<td>LAS 210</td>
<td>Hispanic Groups in the United States</td>
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<td>LAS 223</td>
<td>Spanish Caribbean Culture</td>
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<td>Mexican Culture</td>
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<td>LAT 111</td>
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<td>LAT 112</td>
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**Law**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Requirements</th>
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<tbody>
<tr>
<td>LAW 101</td>
<td>Fundamentals of Law I</td>
<td>3</td>
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<td>LAW 204</td>
<td>Torts</td>
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<td>LAW 205</td>
<td>Contracts</td>
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<td>LAW 231</td>
<td>Civil Procedure</td>
<td>3</td>
<td>(3,0,0,0)</td>
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COURSE DESCRIPTIONS

LAW 232  Criminal Procedure  3  (3,0,0,0)
Examines the criminal justice system, including procedures from arrest to final disposition, principles of constitutional, federal, state and local laws as they affect the process in criminal court procedures.
Prerequisite: LAW 101.

LAW 234  Civil Procedure II  3  (3,0,0,0)
This course explores the court system in Nevada from the point of preparing for trial to post trial and alternative dispute resolutions, by retrieving rules from Nevada websites and federal websites. The students will be preparing documents for trial, including summarizing depositions and medical records.
Prerequisite: LAW 231.

LAW 250  Administrative Law  3  (3,0,0,0)
Study of the history of administrative agencies, administrative law procedures, use of expert witnesses, law of evidence, constitutional limitations and judicial review.
Prerequisite: LAW 101.

LAW 251  Bankruptcy  3  (3,0,0,0)
Study of expanded jurisdiction, its effects on financial rehabilitation of individuals and corporations; involuntary petitions, preparation of voluntary petitions filing; automatic stay provisions, complaint to vacate stay and abandonment of assets.
Prerequisite: LAW 101.

LAW 252  Family Law  3  (3,0,0,0)
The law of family relations, including the following: marriage, annulment, dissolution, divorce, separation, guardianship, adoption, custody and legitimacy of children, parental rights and duties and duties of minors.
Prerequisite: LAW 101.

LAW 253  Law Office Management  3  (3,0,0,0)
A study of economical and efficient law office practices and procedures including the proper use of law office technology and computerized data processing.
Prerequisite: ENG 101 and IS 101 both with a grade of C or higher.

LAW 255  Probate Procedures  3  (3,0,0,0)
Law related to estate planning issues. Includes procedure to distribute a person’s estate upon one’s death, creation and administration of a trust and procedure to appoint another to act on one’s behalf. Also includes a discussion of health care documents and related elderly care issues.
Prerequisite: LAW 101.

LAW 258  Constitutional Law  3  (3,0,0,0)
This course will introduce the student to the fundamental principles and concepts of American Constitutional Law with specific emphasis on civil rights, liberties and responsibilities.
Prerequisite: LAW 101.

LAW 259  Legal Writing  3  (3,0,0,0)
An in-depth study and development of legal writing skills. Introduction to the major forms of legal writing, legal terminology, and the principles for organization of legal memorandums or briefs.
Prerequisite: LAW 101 or Instructor approval.

LAW 261  Legal Research I  4  (4,0,0,0)
Legal research and terminology, including law library familiarization and development of skills. Emphasis on finding, reading and synthesizing cases and in preparing legal memoranda.
Prerequisites: LAW 101 and LAW 259.

LAW 262  Legal Research II  4  (4,0,0,0)
In-depth study for developing legal research and writing skills. Subjects presented in Legal Research I will be covered in greater detail using federal, state, and administrative law. Emphasis will be placed upon computer assisted legal research tools such as Westlaw, Lexis, and the Internet.
Prerequisite: LAW 261.

LAW 263  Ethics  3  (3,0,0,0)
Covers the relationship between the court, attorney, client and legal assistant. Discusses what a legal assistant may and may not do. Also discusses conflicts of interest, dealing with witnesses and adverse parties and confidentiality.

LAW 264  Civil Evidence  3  (3,0,0,0)
To familiarize the student with the rules and forms of evidence that is admissible in court.
Prerequisite: LAW 101.

LAW 265  Supervised Field Experience 3 (0,0,0,8)
Offers legal assistant work experience under the supervision of an attorney. The student will work at a local law firm or agency eight hours per week, for a total of 120 hours to gain practical work experience. The student and law firm/agency will report their experience to the program director.
Prerequisites: Completion of 21 LAW credits and Legal Programs Director approval.

Library Skills

LIB 101  Research for College Papers  1  (1,0,0,0)
An overview of basic research strategies using Internet and print resources. Focus is on gathering viable information for college assignments.
Mathematics

MATH 050D Mathematics for the Trades  3 (3,0,0,0)
Course emphasizes solving apprenticeship related applied problems and includes a review of basic mathematics operations, exponents, English and Metric measurement, elementary algebra, scientific notation, plane and solid geometric figures, and triangle trigonometry.

MATH 091 Basic Mathematics  3 (3,0,0,0)
A course in arithmetic. Topics include fractions, decimals, measurements, percents, ratios, and proportions. A comprehensive, proctored, departmental final exam will be given.

MATH 092 Algebra Review  3 (1,2,0,0)
MATH 092, Algebra Review, 1-2 Credits – A course intended to review topics from Elementary and Intermediate Algebra. It is a course specifically designed to be one half of a Stretch course. This course does not satisfy the Prerequisites of any CSN math courses. Prerequisite: A satisfactory ACT/SAT/Placement Test score.

MATH 093 Pre-Algebra  1-3 (1-3,0,0,0)
A course intended to review arithmetic and to preview elementary algebra. A comprehensive, proctored, departmental final exam will be given. Students must pass this final exam with 60% or better in order to earn at least the grade of C in the course.
Prerequisites: Satisfactory SAT/ACT/Placement Test score and Instructor approval.

MATH 095 Elementary Algebra  3 (3,0,0,0)
A course in the fundamental operations of real numbers, solving linear equations in one variable, graphing linear equations in two variables, solving linear systems in two variables, and performing basic operations on polynomials. Intended to provide a basic foundation for future mathematics needed in fields of business, economics, engineering and related fields. Strong background in fractions and positive and negative numbers is highly recommended. A comprehensive, proctored, departmental final exam will be given.
Prerequisite: MATH 093 or MATH 116 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 095L Elementary Algebra Lab  1 (0,3,0,0)
This course reinforces co-requisite material and provides assistance with MATH 95. Topics may be presented through activities, applications, and group work. This course can only be taken concurrently with MATH 95.
Prerequisite: MATH 91 with a grade of C or higher; or Satisfactory SAT/ACT/Placement Test score.

MATH 096 Intermediate Algebra  3 (3,0,0,0)
Topics include factoring polynomials, rational expressions and equations, radical expressions and equations, quadratic equations, graphs and applications. A comprehensive, proctored, departmental final exam will be given.
Prerequisite: MATH 095 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 097 Elementary and Intermediate Algebra  5 (5,0,0,0)
A one-semester course equivalent to the combination of MATH 095 and MATH 096. Topics include solving linear equations in one variable, polynomials, integer exponents, factoring, rational expressions and equations, graphing linear equations in two variable, inequalities, systems of linear equations, radicals and rational exponents, and quadratic equations. A comprehensive, proctored, departmental final exam will be given.
Prerequisite: MATH 093 or MATH 116 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 100B Math for Allied Health Programs  3 (3,0,0,0)
A course designed to provide the mathematics skills used in allied health fields. Topics include operations with fractions and decimals, measurement systems, percents, ratios and proportions, drug calculations, and IV flow rates.

MATH 104B Applied Mathematics  3 (3,0,0,0)
Emphasizing applications, topics include arithmetic, algebra, pre-algebra, graphing, geometry, finance, probability and statistics. Course is only applicable for AAS and AGS degrees and is not transferable for credit.

MATH 115B Mathematics for the Hospitality/Gaming Industry  3 (3,0,0,0)
Using data and examples relevant to the hospitality/gaming industry, students will use an applied approach to learn math skills relevant to this industry. Topics covered will include fractions, decimals, geometry, percents, ratio and proportions, probability and statistics. The use of computers and calculators will be integrated into the applications. Students will work in “teams” on some projects and activities.

MATH 116 Technical Mathematics  3 (3,0,0,0)
Concepts that will allow students to become proficient in the mathematics used in technical fields are the focal point of this course. Topics include fundamental operations with signed numbers; measurement systems; exponents; order of operations; scientific notation; algebraic expressions; linear equations and inequalities; an introduction to graphing; simple geometric figures, logarithms; and fundamentals of trigonometry. MATH 091 is strongly recommended prior to enrollment.
MATH 120  Fundamentals of College Mathematics  3 (3,0,0,0)
Topics include probability, statistics, geometry, and consumer mathematics. It may include problem solving, sets, logic, mathematical systems, numeration, and measurement. Course is broad in scope, emphasizing applications.
Prerequisite: MATH 095 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 120H  Fundamentals of College Mathematics - Honors  3 (3,0,0,0)
An Honors-level study of topics include problem solving, sets, probability, statistics, geometry, and consumer mathematics. It may include logic, mathematical systems, measurement, and graph theory. Course is broad in scope, emphasizing applications. Honors emphasizes interactive learning and entailing an examination of the self and understanding basic evolution of mathematical ideas through the use of reflective reasoning and dialogue. Courses with “H” suffixes are designated Honors-level courses and can be used to fulfill equivalent general education requirements.
Prerequisite: MATH 095 with a grade of C or better; or satisfactory ACT/SAT/Placement Test score as well as admission to the Honors program.

MATH 122  Number Concepts for Elementary School Teachers  3 (3,0,0,0)
Mathematics needed by those teaching the new-content curriculum at the elementary school level, emphasizing number concepts. This course does not satisfy the general education core requirements.
Prerequisite: MATH 096 or MATH 097 both with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 123  Statistical and Geometrical Concepts for Elementary School Teachers  3 (3,0,0,0)
Mathematics needed by those teaching the new-content curriculum at the elementary school level, emphasizing concepts in statistics, geometry, and probability.
Prerequisite: MATH 122 with a grade of C or better.

MATH 124  College Algebra  3 (3,0,0,0)
Practical applications are the focal point of this course. Topics include equations and inequalities; linear, quadratic, polynomial, exponential and logarithmic functions and their graphs; solutions of systems of linear equations; matrices; and sequences and series. Note: This course does NOT serve as a Prerequisite for MATH 127 nor is it sufficiently rigorous for entry into calculus
Prerequisite: MATH 096 or MATH 097 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 126  Precalculus I  3 (3,0,0,0)
A rigorous discussion of algebra concepts necessary for calculus is the focal point of this course. Topics include an in-depth investigation of algebraic functions and their graphs and solutions of systems of equations.
Prerequisite: MATH 096 or MATH 097 both with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score. Note: This course serves as a prerequisite course for MATH 127 and is essential for students planning to take calculus.

MATH 127  Precalculus II  3 (3,0,0,0)
Topics include an in-depth investigation of trigonometric functions and their graphs, analytic trigonometry, solutions of triangles, vectors, and analytic geometry.
Prerequisite: MATH 126 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score. Note: This course is essential for students planning to take calculus.

MATH 128  Precalculus and Trigonometry  5 (5,0,0,0)
A one semester course equivalent to the combination of MATH 126 and MATH 127. Topics include an in-depth investigation of algebraic and trigonometric functions and their graphs, solutions of systems of equations, analytic trigonometry, solutions of triangles, vectors, and analytic geometry.
Prerequisite: MATH 096 or MATH 097 both with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 132  Finite Mathematics  3 (3,0,0,0)
Topics include symbolic logic, set theory, and probability theory applied to the analysis of business and social science problems.
Prerequisite: MATH 124 or MATH 126 or MATH 128 all with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 170  Mathematics of Finance  3 (3,0,0,0)
A mathematical study of interest annuities, sinking funds, depreciation, amortization and other topics related to business problems.
Prerequisite: MATH 096 or 1-1/2 units of high school algebra.

MATH 176  Introductory Calculus for Application in Business and Social Sciences  4 (4,0,0,0)
Differentiation and integration of algebraic functions with applications to the analysis of business and social science problems.
Prerequisite: Placement Test or MATH 124 or MATH 126 or equivalent.
MATH 181 Calculus I 4 (4,0,0,0)
Differentiation and integration of algebraic and transcendental functions with applications.
Prerequisites: MATH 126 and MATH 127 or MATH 128 all with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 182 Calculus II 4 (4,0,0,0)
Topics include further applications and techniques of integration with applications, polynomial approximations, sequences, and series.
Prerequisite: MATH 181 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 211B Advanced Mathematics for Electronics 4 (4,0,0,0)
An advanced course focusing on the mathematics that supports RADAR theory, circuit theory and telecommunications theory. The course will include conic sections, trigonometric functions and vectors, matrices, analytic geometry, and the introduction to differential and integral calculus, applications of first and second order differential equations in electronics, and Laplace transforms.
Prerequisites: MATH 111B and ET 132B or Instructor approval.

MATH 251 Discrete Mathematics I 3 (3,0,0,0)
Topics include fundamental principles of logic and proof methods, elements of set theory, equivalence relations and partitions, counting techniques, mathematical induction, cardinality, power set, inclusion-exclusion principle, Cartesian product, pigeonhole principle, binomial theorem, probability and expectation.
Prerequisites: MATH 127 or equivalent; and Corequisite: MATH 181 or equivalent.

MATH 253 Matrix Algebra 3 (3,0,0,0)
Introduces linear algebra, including matrices, determinants, vector spaces, linear transformations, eigenvectors and eigenvalues.
Prerequisite: MATH 182 with a grade of C or better.

MATH 283 Calculus III 4 (4,0,0,0)
Topics include vectors, differentiation and integration of vector valued functions, multi-variable calculus, partial derivatives, multiple integrals, and applications.
Prerequisite: MATH 182 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

MATH 285 Differential Equations 3 (3,0,0,0)
Theory and techniques for constant and variable coefficient ordinary linear differential equations. Also included are a number of non-linear types of ordinary differential equations. Emphasis will be on those differential equations arising from modeling real world phenomena.
Prerequisite: MATH 182 with a grade of C or better.

Mechanical Engineering

ME 242 Dynamics 3 (3,0,0,0)
Engineering analysis of bodies in motion in both two- and three-dimensions; analysis of the kinematic and kinetic principles for both particles and rigid bodies; the development and utilization of the concepts of force and acceleration, work, energy, impulse, momentum and impact.
Prerequisites: CEE 241 (formerly CEG 206) and PHYS 180 and PHYS 180L; and MATH 182.

Management

MGT 100B Practical Human Relations for Business 3 (3,0,0,0)
Study of human factors involved in business and management with emphasis upon mutual responsibilities and communication problems of employees, managers and customers. Team activities.

MGT 103 Introduction to Small Business Management 3 (3,0,0,0)
Topics covered include start-up, financial and administrative controls, marketing programs, management techniques, legal and governmental relationships. All aspects of operating a business will be thoroughly discussed.

MGT 201 Principles of Management 3 (3,0,0,0)
Topics covered include fundamentals and principles of management, administrative policies, objectives and procedures and problems of organization control and leadership.

MGT 212 Leadership and Human Relations 3 (3,0,0,0)
Focus is on understanding and managing human behavior in organizations. Developing a better understanding of one’s self as a leader and exploring some of the more effective ways of leading others.

MGT 235 Organizational Behavior 3 (3,0,0,0)
Topics include concepts, theories and case studies concerning the behavior of people in modern business organizations.

MGT 283 Introduction to Human Resources Management 3 (3,0,0,0)
Designed to develop an understanding of the duties and responsibilities of personnel at the mid-management level. Areas covered include: employee needs, human relations, recruiting techniques, orienting and training employees, benefit programs and economics of supervision.
MGT 284B  Introduction to International Management  3 (3,0,0,0)
Examination of the management of resources (people, capital goods, money, inventories and technology) across national boundaries. The student will also learn to adapt management principles and functions to the demands of foreign competition and environment. The class will be supplemented with international speakers. Prerequisite: MGT 201.

MGT 286B  Personnel Interviewing  3 (3,0,0,0)
A study of the legal aspects of interviewing in the public and private sector. Students participate in oral board, orientation, counseling, exit and performance appraisal simulations.

MGT 294B  Seminar in Management  3 (3,0,0,0)
Analysis of the nature and problems in management. Focus is on planning, organizing, decision making and controlling through the study of recent relevant literature and selected cases. May be taken a maximum of three times.

MGT 301  Principles of Management and Organizational Behavior  3 (3,0,0,0)
Fundamentals and principles of management. Administrative policies, objectives, and procedures. Problems of organizational control and leadership. Prerequisite: BUS 101.

MGT 367  Human Resource Management  3 (3,0,0,0)
Objectives, functions, organization, and philosophy of personnel relations. Special emphasis on employment, training, and labor relations. Prerequisite: MGT 301.

Mental Health Services

MHDD 101  Role of the Technician  1 (1,0,0,0)
Basic skills in behavioral observation, documentation and approaches to intervention as a treatment team member. Other topics include guardianship, rights, confidentiality, abuse and neglect, and program implementation.

MHDD 102  Medical Component  1 (1,0,0,0)
This course covers basic medical information including infection control, safety procedures, confidentiality, awareness of normal bodily functions, personal care and recognition of signs and symptoms that need to be reported to medical staff.

MHDD 103  Psychopathology and Developmental Disabilities  1 (1,0,0,0)
Study of the functional relationship between dual diagnosis of mental disorders and/or developmental disabilities and individual treatment issues raised by dual diagnosis.

MHDD 105  Conflict Prevention and Response Training  2 (2,0,0,0)
This course focuses on the application of prevention and response techniques to support persons in crisis or conflict with others. These applications are for use by service providers as approved by the State of Nevada, Division of Mental Health and Developmental Services.

MHDD 106  Teaching and Active Treatment  1 (1,0,0,0)
Defining “active treatment” and its necessary components. Implementing active treatment in a service context of dignity, respect, privacy, access to choices and participation in the therapeutic process with the use of effective teaching methods.

MHDD 107  Medication Fundamentals  2 (2,0,0,0)
Study of major categories of psychotropic and seizure medications. Rationale for use of medication, typical dosages, main effects, assessment of effectiveness and potential side effects.

MHDD 109  Introduction to Therapeutic Interventions  2 (2,0,0,0)
Basic approaches to behavioral intervention including defining behavior, data collection, principles and application of behavior change techniques, and implementation of behavioral programs.

MHDD 110  Introduction to Disability Services  3 (3,0,0,0)
Study of the history, social attitudes, major diagnostic categories, assessment techniques, major service approaches, legislation and standards of services related to persons with disabilities.

MHDD 126  Understanding Developmental Disabilities  2 (2,0,0,0)
Definition, history, diagnosis and causes of developmental disabilities. Development and delivery of effective direct support services to persons with developmental disabilities.

MHDD 127  Positive Behavior Supports  2 (2,0,0,0)
Addressed are applied approaches to changing behavior emphasizing positive learning principles, including functional observation and assessment of behavior, data collection, computation and graphing of data, positive behavior support planning and implementation, reinforcement, and progress evaluation.

MHDD 130  Teaching Life Skills  3 (3,0,0,0)
Study of teaching functional life skills to persons with disabilities, including persons with physical, social, vocational, communicative, intellectual, cognitive, and other mental disabilities.

MHDD 150  Issues In Substance Abuse  1 (1,0,0,0)
Overview of substance abuse issues and study of basic treatment approaches. Includes biological and lifestyle factors as well as legal issues.
MHDD 152  Allied Therapies  1 (1,0,0,0)
Study of the interdisciplinary roles of psychiatrists, psychologists, nurses, social workers, speech therapists, occupational therapists, recreational therapists and other professions involved in the therapeutic process.

MHDD 153  Life Span Development  1 (1,0,0,0)
Human growth and development through the life span. Includes social, cognitive and biological perspectives related to direct support services to persons with mental illness and/or developmental disabilities.

MHDD 154  Advanced Therapeutic Interventions  2 (2,0,0,0)
A working knowledge of therapeutic interventions, including active listening skills, elements of treatment plans, applications of basic treatment models and issues in therapeutic relationships.
Prerequisite: MHDD 109.

MHDD 160  Understanding Mental Illness  2 (2,0,0,0)
Practical strategies for working with people with mental illness. Includes a brief history, social stigma, major diagnostic categories, common treatment issues and development of treatment plans related to mental illness.

MHDD 210  Autism Spectrum Disorders  3 (3,0,0,0)
Overview of autism spectrum disorders, including: assessment, diagnostic criteria, behavioral characteristics, impact on family, current research/intervention approaches, and support services.

MHDD 291B  Fieldwork Experience  3 (1,0,0,12)
Experience to apply academic skills to on-site job training in human services agencies under experienced on-site supervision and on-going consulting with faculty mentor. May be repeated to a maximum of nine credits.
Prerequisites: Completion of at least ten MHDD credits and Program Director approval.

MHDD 295  Practicum  3 (1,0,0,6)
Applied observation, experience, and reporting of service learning within approved community services setting.
Prerequisite: Instructor approval.

MHDD 299  Capstone Project  3 (1,0,0,6)
This course provides a capstone experience to integrate theory and academic coursework into a substantive applied project for students majoring in Mental Health Services.
Prerequisite: Program Director approval.

Military Science

MIL 100  Leadership Lab  1 (0,2,0,0)
Practicum in those skills taught in the classroom during the other military science classes. Hands-on lab led by mentored cadets focusing on leadership, planning and execution of squad tactics, movement formations, drill and ceremonies, equipment inspections, rappelling, land navigation, orienteering, rifle marksmanship, and air-mobile operations. Leadership Lab is required every semester in conjunction with the appropriate military science class.

MIL 101  Leadership and Personal Development  2 (2,0,0,0)
Mission of the armed services, introduction to the United States Army, its customs and traditions, the role of the Army Officer, the role of the Non-Commissioned Officers Corps, Organizations of the TOTAL Army (Including the National Guard and Army Reserves). Introductory orienteering, marksmanship, physical fitness and briefing skills.

MIL 102  Introduction to Tactical Leadership  2 (2,0,0,0)
Continuation of the mission of the armed services, introduction to the United States Army, its customs and traditions, the role of the Non-Commissioned Officers Corps, Organizations of the TOTAL Army (Including the National Guard and Army Reserves). Introductory orienteering, marksmanship, physical fitness and briefing skills.

MIL 201  Innovative Team Leadership  2 (2,0,0,0)
Introduction to leadership and management, which develops the basic skills that must be learned in order to perform as an effective leader. Introduction to the Army Leadership Development Program (LDP), the decision-making process, the code of conduct, the Army Operations Order format and its use. Advanced land navigation, physical fitness and briefing skills.

MIL 202  Foundations of Tactical Leadership  2 (2,0,0,0)
Leadership and management, which develops the basic skills that must be learned in order to perform as an effective leader. Introduction to the Army Leadership Development Program (LDP), the decision-making process, the code of conduct, the Army Operations Order format and its use. Advanced land navigation, physical fitness, and briefing skills.

Marketing/Merchandising/Retail Management

MKT 123  Sales Promotion  3 (3,0,0,0)
Provides the basic knowledge necessary to develop sound sales promotion practices. Builds on a rigorous base of consumer psychology and treats advertising, reseller stimulation, personal selling and other communication tools as part of an overall promotional mix.
MKT 127 Introduction to Retailing 3 (3,0,0,0)
Directs the student’s attention to the dollar and cents implications of managerial decisions and to the various methods used to measure the profitability of those decisions in the field of retailing. Underlines the importance of customer requirements, taste and expectations, emphasizing the retailing implications of market factors.

MKT 132 Sales Management 3 (3,0,0,0)
Provides a comprehensive view of the sales manager as an administrator. Presents a detailed picture of how to operate a sales force including selecting, training, compensating, supervising and motivating sales people.

MKT 210 Marketing Principles 3 (3,0,0,0)
Survey of marketing. Studies problems of the manufacturer, wholesaler and retailer in the marketing of goods and services, channels of distribution, customer relations, pricing policies and communications.

MKT 211 Introduction to Professional Sales 3 (3,0,0,0)
Provides a comprehensive hands-on experience in selling techniques as they relate to modern industrial, wholesale and consumer products.

MKT 250 Introduction to International Marketing 3 (3,0,0,0)
Introduces the student to the various functions of marketing as they are performed in the international environment. Focuses on the problems and decisions facing management in international marketing. Considers the impact of differences in language, aesthetics, religion and business customs on marketing strategies.
Prerequisite: MKT 210.

MKT 261 Introduction to Public Relations 3 (3,0,0,0)
Techniques of public relations for those holding supervisory or higher positions in management and marketing. Principles of creating and maintaining good public relations, including employee/employer relations. Customer/employee relations receive emphasis while focusing on the programming of the total public relations effort and selecting of appropriate strategy, media and persuasive devices to accomplish objectives.

Medical Office Assisting

MOA 101B Introduction to Medical Assisting 3 (2,3,0,0)
Introduction to the profession of Medical Assisting. Topics include professionalism, communication techniques, community resources, medical ethics and confidentiality.
Corequisites: ENG 101 and COT 127B.

MOA 106B The Body in Health and Disease I 3 (3,0,0,0)
Essential anatomy and physiology of 5 body systems emphasizing application to patient interviewing, teaching, and communication with health professionals.
Corequisite: MOA 107B.

MOA 107B Medical Assistant Techniques 4 (3,3,0,0)
Emphasis on the clinical aspect of a medical office. Topics include preparation, assisting, vital signs, basic pharmacology, nutrition and diet therapy.
Corequisite: MOA 106B.

MOA 108B The Body in Health and Disease II 3 (3,0,0,0)
Continuation of MOA 106B. Includes remaining body systems as well as human development and aging, diagnostic and imaging procedures.
Prerequisite: Instructor approval.

MOA 110B Clinical Assistant Techniques 4 (3,3,0,0)
Principles of infection control and IV therapy. Equipment preparation, operation and maintenance. Aseptic techniques, preparation and administration of medications, ECG, assisting with minor office procedures, emergency procedures, CPR and First Aid Certification.
Prerequisite: MOA 107B.

MOA 120B Medical Office Management 3 (2,3,0,0)
The theory, practice and techniques of medical office management. This course emphasizes medical administrative responsibilities, records management, business management, managed care, computerized office management, and transcription.
Prerequisite: MOA 101B or MOA Program Director approval.

MOA 130B Clinical Externship 3 (0,0,12,0)
Provides practical medical assisting experience in the physician’s office or a medical clinic. Student is an active participant in the administrative and clinical areas. The externship is part of the curriculum and is a learning experience.
Prerequisite: Instructor approval.

MOA 131B Externship Seminar 1 (1,0,0,0)
Discussions of clinical issues and experiences with emphasis on case studies, role playing and problem solving techniques.
Prerequisite: Instructor approval.
MOA 195B  Selected Topics in Medical Assisting  2 (1,3,0,0)
Covers selected topics of interest to students of Medical Office Assisting including review for the national certification examination and preparation for job search.
Prerequisite: Instructor approval.

Mechanical Technology

MT 101B  Introduction to Theater Technology  2 (2,0,0,0)
Introduction and survey of theater history and technology. Identification of criteria for employment and goal achievement in theater environment. Understanding technical and occupational skills needed for meaningful employment within the theater industry.

MT 102B  Fundamentals of Electricity  4 (3,2,0,0)
Fundamentals of constructing electrical circuits, measuring their predictable parameters, using measuring instruments and materials needed to maintain and repair electrical systems. Students in this course should have a working knowledge of algebra.

MT 104B  Industrial Electricity  4 (3,2,0,0)
The course concentrates on fabricating, maintaining, troubleshooting, and repairing electrical systems encountered in industry. Emphasis is on the different types of common motor controllers and ladder logic for configuration.
Prerequisite: MT 102B or ET 131B or AC 102B or Instructor approval or Program approval.

MT 106B  Mechanical Power Transmission  4 (3,2,0,0)
Overview of hardware components of mechanical power to include preventive maintenance, troubleshooting, overhauling and repairing parts and equipment.

MT 108B  Fluid Power (Pneumatics, Hydraulics, Instrumentation)  4 (3,2,0,0)
Presents the theoretical basis for hydraulic and pneumatic circuitry. Attention is given to circuit components and how they work. Assembly, disassembly and troubleshooting is emphasized.

MT 110B  Material Science I (Ferrous and Non-Ferrous)  4 (3,2,0,0)
The study of compositions, structures and behaviors of ferrous and non-ferrous materials and their effects on physical, mechanical and electrical.

MT 112B  Manufacturing Quality Control  3 (2,0,0,0)
The development of a process to determine when a system is in or out of its parameters. Data collection, analysis and problem solving is emphasized.

MT 114B  Automated Manufacturing Control  3 (2,2,0,0)
Encompasses the requisition, ordering, expediting and stock control of materials. Principles of computer and sensor operated manufacturing are presented.

MT 115B  Programmable Logic Controllers I  3 (2,2,0,0)
Presents the principle of programming logic controller and computerized sensor controls. Emphasis placed on troubleshooting and maintaining computerized sensor control systems.
Prerequisites: MT 102B or AC 102B or ET 131B or MT 104B or Instructor approval or Program approval.

MT 116B  Programmable Logic Controllers II  3 (2,2,0,0)
Advanced programmable control applications and uses dealing with programmable control frequency drives and man machine interfaces packages.
Prerequisite: MT 115B or Instructor approval or Program approval.

MT 120B  Electrical Safety  1 (1,0,0,0)
This course covers the proper safety procedures based on OSHA standards 29 CFR 1910 requiring qualification for work on live circuits.

MT 121B  Fundamentals of Industrial Measurement  2 (2,0,0,0)
This course covers basic electrical pressure, density, viscosity, temperature measurements and application of Ohm’s Law. Safe and correct usage of various meters, gauges and test equipment will be emphasized.

MT 122B  Hand Tools and Measuring Instruments  1 (1,0,0,0)
Using computer simulation, the student will articulate proper holding of hand tools for turning and striking. In this same fashion the student will also set up, calibrate and properly use precision measurement tools.

MT 123B  Rigging and Lifting  1 (1,0,0,0)
Computer simulation will be used to demonstrate types of lifting equipment, when each type would be used and proper procedures for planning a lift.

MT 124B  Industrial Lubrication  1 (1,0,0,0)
This course covers various lubrication systems, their operations, preventative maintenance, repair and failure analysis. Included are ring, bath, splash, constant level and force-fed systems. Proper use of related equipment will be covered.
MT 140B Electrical/Electronic Theory 2.5 (2.5,0,0,0)
This course covers Ohm’s Law, the relationship of volts/amps/resistance, basic schematics, symbols and measurement. Analog and digital circuits will be introduced.
Prerequisite: MATH 116.

MT 141B Electrical Print Reading 1 (1,0,0,0)
Reading and interpreting the symbols on electrical schematics, determining the function of input, logic and output elements in control circuits are covered.
Prerequisite: MATH 116.

MT 142B Conduit Bending and Installation 0.5 (0.5,0,0,0)
Understanding of general conduit bending and installation in accordance with the National Electrical Code (NEC), conduit systems, general specifications and the use of types and major components of materials are introduced.
Prerequisite: MATH 116.

MT 143B Electrical Control Equipment 3 (3,0,0,0)
Understanding of installation, maintenance and use of electrical control equipment, such as fuses, circuit breakers, circuit breaker panels, switches, control circuits and relays are covered. This course also covers basic troubleshooting and repair.
Prerequisite: MATH 116.

MT 144B Electrical/Electronic Test Equipment 1 (1,0,0,0)
This course deepens the understanding of electronic test equipment, including digital volt/ohmmeters (DVOM), oscilloscopes and function generators.
Prerequisite: MATH 116.

MT 145B Troubleshooting Skills 0.5 (0.5,0,0,0)
Basic procedures for troubleshooting electrical control circuits, using schematic diagrams to locate problems. Performing continuity checks and developing a diagnostic routine are also covered.
Prerequisite: MATH 116.

MT 160B Industrial Hydraulic Power 3 (3,0,0,0)
Components of hydraulic systems and how the components function together, as well as interpretation of hydraulic schematics are covered.

MT 161B AC/DC Motors 2 (2,0,0,0)
Identification of the basic types of AC/DC motors including permanent magnet, three-phase and induction motors, their major components and how to measure, inspect and diagnose malfunctions are covered.

MT 162B Programmable Logic Controllers 1.5 (1.5,0,0,0)
This course covers interpretation of programmable controller ladder logic, program elements of ladder logic and the function they perform.

MT 180B Co-Op/Internship First Semester 3 (0,0,0,12)
This course provides hands-on opportunities for students to work in actual power utilities environment to gain experience and learn how to apply technical knowledge and skills learned in their course work to actual power utility setting. This Co-Op course is directed by a qualified professional and supervised by the instructor. One credit will be earned for each four hours worked per week during the semester.

MT 181B Co-Op/Internship Second Semester 3 (0,0,0,12)
This course provides hands-on opportunities for students to work in actual power utilities environment to gain experience and learn how to apply technical knowledge and skills learned in their course work to actual power utility setting. This Co-Op course is directed by a qualified professional and supervised by the instructor. One credit will be earned for each four hours worked per week during the semester.

MT 182B Co-Op/Internship Third Semester 2 (0,0,0,9)
This course provides hands-on opportunities to apply material and skills learned in the interactive, multimedia course work previously completed in MT 160B and MT 161B and MT 162B.
Prerequisite: Department approval.

MT 183B Co-Op/Internship Third Semester 3 (0,0,0,12)
This course provides the student with the opportunity to apply the technical knowledge and skills acquired in their course work to actual theater environment. This Co-Op course is directed by a qualified professional and supervised by the instructor. One credit will be earned for each four hours worked per week during the semester.

MT 184B Co-Op/Internship Fourth Semester 3 (0,0,0,12)
This course provides hands-on opportunities for students to work in actual theater environment to gain experience and learn how to apply technical knowledge and skills learned in their course work to actual theater settings. This Co-Op course is directed by a qualified professional and supervised by the instructor. One credit will be earned for each four hours worked per week during the semester.
## Music

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 100</td>
<td>Concert Attendance</td>
<td>0</td>
<td>(0,0,0,1)</td>
</tr>
<tr>
<td></td>
<td>Attendance at ten on-campus concerts and/or recitals as a member of the audience. Required of every music major for four semesters. Note: Students taking this course must check in with the Music Office during the first week of the semester.</td>
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<tr>
<td>MUS 101</td>
<td>Music Fundamentals</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>A course in learning to read music, including notation, terminology, scales, and chords. Designed to furnish a foundation for musicianship.</td>
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<tr>
<td>MUS 102</td>
<td>Beginning Music Theory</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>Review course designed for music majors whose background in music theory is not sufficient for admittance into MUS 201. Not applicable to degree with a major in music. Notation, note reading, scales, intervals, chords, part writing. Sight-Singing and Ear-Training.</td>
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<tr>
<td>MUS 103</td>
<td>Voice Class I</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>Teaches fundamentals of tone production, breath control, and practical techniques involved in reading and interpreting songs.</td>
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<tr>
<td>MUS 107</td>
<td>Guitar Class I</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>A class in basic guitar technique. Recommended for non-Music majors and elementary school teachers. No previous musical training required.</td>
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<tr>
<td>MUS 108</td>
<td>Guitar Class II</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>Classroom instruction in guitar at the intermediate level. Prerequisite: MUS 107.</td>
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<tr>
<td>MUS 111</td>
<td>Piano Class I</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>Class instruction in piano playing. This course is for people who have never played the piano.</td>
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<tr>
<td>MUS 112</td>
<td>Piano Class II</td>
<td>3</td>
<td>(3,0,0,0)</td>
</tr>
<tr>
<td></td>
<td>A class in basic piano technique designed as a continuation of MUS 111. Prerequisite: MUS 111.</td>
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<tr>
<td>MUS 121</td>
<td>Music Appreciation</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>The course is for students with little or no musical training and focuses on the historical background of classical music and composers and listening to representative works. Emphasis is on increasing the enjoyment and understanding of a variety of classical musical styles.</td>
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<tr>
<td>MUS 125</td>
<td>History of Rock Music</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>The esthetics and sociology of rock from its origins in rhythm and blues to the rise of Elvis Presley and Rock-a-Billy, Chuck Berry and teenage-rock, Bob Dylan and protest rock, the Beatles and the Rolling Stones, Psychedelic Rock, and Soul.</td>
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<tr>
<td>MUS 131</td>
<td>Introduction to Music Literature</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>Development of a listening repertoire that will serve as a basis for music history.</td>
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<tr>
<td>MUS 133</td>
<td>History of The Beatles</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>Students will study the history of The Beatles from their beginnings in Liverpool, England, to their unequaled world popularity. It will feature a mixture of videos, music, and discussion that will cover every important phase of the world’s most successful and beloved rock band.</td>
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<tr>
<td>MUS 134</td>
<td>Jazz Appreciation</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>Study of jazz literature for the layperson from the early 1900s to the present with emphasis on differentiating the various styles of jazz.</td>
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<tr>
<td>MUS 139</td>
<td>Introduction to Music Technology</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>A hands-on course correlating music with computer usage. Topics include sound/data management, MIDI, basic recording and editing, signal processing, and music notation. Systems used may include Avid ProTools, Apple Logic, Ableton Live, Propellerhead Reason, and Makemusic Finale.</td>
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<tr>
<td>MUS 181</td>
<td>Business of Music</td>
<td>3</td>
<td>(3,0,0,0)</td>
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<tr>
<td></td>
<td>A general survey course to provide the knowledge of music merchandising, management, publishing, contracts, copyrights, record production, concert promotion and manager selection.</td>
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<tr>
<td>MUS 201E</td>
<td>Basic Musicianship I</td>
<td>3</td>
<td>(3,0,0,0)</td>
</tr>
<tr>
<td></td>
<td>Elementary Harmony. A basic study of harmonic practices, including four-part writing and rudimentary forms. Prerequisite: Theory Placement Exam.</td>
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<tr>
<td>MUS 201F</td>
<td>Basic Musicianship II</td>
<td>1</td>
<td>(1,0,0,1)</td>
</tr>
<tr>
<td></td>
<td>Ear-Training and Sight-Singing Lab. These elements are practiced as related to materials presented in MUS 201E. Prerequisite: Theory Placement Exam.</td>
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<tr>
<td>MUS 202E</td>
<td>Basic Musicianship II</td>
<td>3</td>
<td>(3,0,0,0)</td>
</tr>
<tr>
<td></td>
<td>Elementary Harmony. A basic study of harmonic practices, including diatonic seventh chords, part-writing, secondary functions, modulations and rudimentary forms. Prerequisite: MUS 201E.</td>
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</tr>
<tr>
<td>MUS 202F</td>
<td>Basic Musicianship III</td>
<td>1</td>
<td>(1,0,0,1)</td>
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<tr>
<td></td>
<td>Ear-Training and Sight-Singing Lab. These elements are practiced as related to materials presented in MUS 202E. Prerequisite: MUS 201F.</td>
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</tr>
</tbody>
</table>
MUS 207E  Advanced Musicianship I E  3 (3,0,0,0)
The study of harmonic practices including part-writing, altered chords, modulations and late nineteenth century techniques.
Prerequisite: MUS 202E.

MUS 207F  Advanced Musicianship I F  1 (1,0,0,0)
Ear-Training and Sight-Singing Lab. These elements are practiced as related to materials presented in MUS 207E.
Prerequisite: MUS 202F.

MUS 208E  Advanced Musicianship II E  3 (3,0,0,0)
The advanced study of harmonic practices including twentieth century techniques and rudimentary counterpoint exercises.
Prerequisite: MUS 207E.

MUS 208F  Advanced Musicianship II F  1 (1,0,0,0)
Ear-Training and Sight-Singing Lab. These elements are practiced as related to materials presented in MUS 208E.
Prerequisite: MUS 207F.

MUS 229  Survey of Latin American Music  3 (3,0,0,0)
A survey of musical traditions and stylistic trends of Latin America from their roots to the present. This course will explore selected Latin American music works and styles from countries such as Mexico, Cuba, Brazil, Colombia, Argentina and others, studying their influence in other continents and the United States.

MUS 230  Music Technology II  3 (3,0,0,0)
Provides a detailed study into the relationship between music production and computers. Topics include digital signal processing (DSP), software synthesis, plugins, computer audio hardware, and other components of the digital audio workstation (DAW). Systems used may include Avid ProTools, Apple Logic, Ableton Live, Propellerhead Reason, and MakeMusic Finale.
Prerequisite: MUS 139 with a grade of C- or higher.

MUS 231  Recording Techniques I  3 (3,0,0,0)
An introduction to audio recording including theoretical concepts, terminology, microphones, consoles, and use of analog and digital equipment. Includes hands-on training.

MUS 232  Recording Techniques II  3 (3,0,0,0)
An intermediate course in multi-track recording techniques including discussions on session procedures, production techniques, tracking and overdubbing methods, and general equipment operation.
Prerequisite: MUS 231.

MUS 239  Virtual Studio Technology  3 (3,0,0,0)
Explores the theory and application of hard-disc recording systems, particularly ProTools, from setup to mastering. Students have hands-on experience while learning concepts and techniques for proper functioning of MIDI, digital audio, I/O, plugins, etc. NOTE: This course uses Avid ProTools.

MUS 240  Virtual Studio Technology II  3 (3,0,0,0)
A continuation of MUS 239. Emphasizes advanced DAW usage, particularly ProTools. Students have hands-on experience with concepts and techniques including signal routing strategies, keyboard shortcuts, power commands, editing, automation and other advanced DAW features. NOTE: This course uses Avid ProTools.
Prerequisite: MUS 239 with a grade of C- or higher.

MUS 249  Harp  1 (0,0,0,0.5)
Private instruction in harp. May be repeated up to a maximum of four credits.

MUS 251  Jazz Fundamentals I  3 (3,0,0,0)
Study of chord/scale relationships in improvising jazz/rock music. Includes voicings for keyboard and instrumental performance.
Prerequisite: Appropriate musical background.

MUS 255  Jazz Keyboard Techniques I  3 (3,0,0,0)
Continuation of skills from MUS 111 with an emphasis on pop, jazz, and contemporary piano styles.
Prerequisite: MUS 111.

MUS 256  Jazz Keyboard Techniques II  3 (3,0,0,0)
Continuation of MUS 255. Emphasis on improvisation, composition, and performance with rhythm section.
Prerequisite: MUS 255.

MUS 260B  Studio Session Procedures  3 (3,0,0,0)
A course in recording studio production developed as a real-world case study. Students participate in a semester-long project creating a commercial-release quality recording of a musical group. The entire process from preparation through mastering is involved. Studio etiquette, management, and artist psychology are also demonstrated. Up to 9 hours outside of scheduled class time may be required.
Prerequisite: MUS 232 with a grade of C- or higher.

MUS 262B  Urban Music Production  3 (3,0,0,0)
Focuses on techniques used in creating Hip-Hop, Rap, Contemporary R&B, and related styles of music. Examples of devices used (may vary) include ProTools, Logic, Reason, NI Komplete and Maschine, Akai MPC2000, and vintage and current synthesizers and samplers.
Prerequisite: MUS 232 with a grade of C- or higher.
MUS 281B  Business of Music II  3 (3,0,0,0)
A continuation of MUS 181. Topics include starting a record label, recording budgets, record royalties, audits, legal agreements, and the future of the recording and music industry.
Prerequisite: MUS 181.

MUS 285B  Advanced Recording Techniques  3 (3,0,0,0)
A continuation of MUS 232. Emphasis on hands-on recording projects, digital multitrack recording, hard-disk editing, and mix-down techniques.
Prerequisite: MUS 232.

Music – Private Instruction

MUSA 101  Bass – Lower Division  1 (0,0,0,0.5)
Private instruction in Bass for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 101.

MUSA 102  Bass II  1 (0,0,0,0.5)
Private instruction in Bass for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 101.

MUSA 103  Bassoon – Lower Division  1 (0,0,0,0.5)
Private instruction in Bassoon for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 103.

MUSA 104  Bassoon II  1 (0,0,0,0.5)
Private instruction in Bassoon for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 103.

MUSA 105  Cello – Lower Division  1 (0,0,0,0.5)
Private instruction in Cello for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 105.

MUSA 106  Cello II  1 (0,0,0,0.5)
Private instruction in Cello for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 105.

MUSA 107  Clarinet – Lower Division  1 (0,0,0,0.5)
Private instruction in Clarinet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 107.

MUSA 108  Clarinet II  1 (0,0,0,0.5)
Private instruction in Clarinet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 107.

MUSA 109  Drum Set – Lower Division  1 (0,0,0,0.5)
Private instruction in Drum Set for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 109.

MUSA 110  Drum Set II  1 (0,0,0,0.5)
Private instruction in Drum Set for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 109.

MUSA 111  Euphonium – Lower Division  1 (0,0,0,0.5)
Private instruction in Euphonium for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 111.

MUSA 112  Euphonium II  1 (0,0,0,0.5)
Private instruction in Euphonium for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 111.
MUSA 113 Flute – Lower Division 1 (0,0,0.5)
Private instruction in Flute for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 114 Flute II 1 (0,0,0.5)
Private instruction in Flute for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 115 Guitar – Lower Division 1 (0,0,0.5)
Private instruction in Guitar for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 116 Guitar II 1 (0,0,0.5)
Private instruction in Guitar for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 117 Harp – Lower Division 1 (0,0,0.5)
Private instruction in Harp for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 118 Harp II 1 (0,0,0.5)
Private instruction in Harp for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 121 Horn – Lower Division 1 (0,0,0.5)
Private instruction in Horn for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 122 Horn II 1 (0,0,0.5)
Private instruction in Horn for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 123 Oboe – Lower Division 1 (0,0,0.5)
Private instruction in Oboe for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 124 Oboe II 1 (0,0,0.5)
Private instruction in Oboe for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 127 Percussion – Lower Division 1 (0,0,0.5)
Private instruction in Percussion for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 128 Percussion II 1 (0,0,0.5)
Private instruction in Percussion for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 129 Piano – Lower Division 1 (0,0,0.5)
Private instruction in Piano for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 130 Piano II 1 (0,0,0.5)
Private instruction in Piano for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
MUSA 131  Saxophone – Lower Division  1 (0.0,0.0,0.5)
Private instruction in Saxophone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 132  Saxophone II  1 (0.0,0.0,0.5)
Private instruction in Saxophone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 131.

MUSA 133  Synthesizer/MIDI – Lower Division  1 (0.0,0.0,0.5)
Private instruction in Synthesizer/MIDI for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 134  Synthesizer/MIDI II  1 (0.0,0.0,0.5)
Private instruction in Synthesizer/MIDI for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 133.

MUSA 135  Trombone – Lower Division  1 (0.0,0.0,0.5)
Private instruction in Trombone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 136  Trombone II  1 (0.0,0.0,0.5)
Private instruction in Trombone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 135.

MUSA 137  Trumpet – Lower Division  1 (0.0,0.0,0.5)
Private instruction in Trumpet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 138  Trumpet II  1 (0.0,0.0,0.5)
Private instruction in Trumpet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 137.

MUSA 139  Tuba – Lower Division  1 (0.0,0.0,0.5)
Private instruction in Tuba for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 140  Tuba II  1 (0.0,0.0,0.5)
Private instruction in Tuba for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 139.

MUSA 141  Viola – Lower Division  1 (0.0,0.0,0.5)
Private instruction in Viola for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 142  Viola II  1 (0.0,0.0,0.5)
Private instruction in Viola for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 141.

MUSA 143  Violin – Lower Division  1 (0.0,0.0,0.5)
Private instruction in Violin for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.

MUSA 144  Violin II  1 (0.0,0.0,0.5)
Private instruction in Violin for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 143.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 145</td>
<td>Voice – Lower Division</td>
<td>1</td>
<td>Private instruction in Voice for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for first semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 145.</td>
</tr>
<tr>
<td>MUSA 146</td>
<td>Voice II</td>
<td>1</td>
<td>Private instruction in Voice for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for second semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 145.</td>
</tr>
<tr>
<td>MUSA 151</td>
<td>Bass for Non-Majors</td>
<td>1</td>
<td>Private instruction in Bass for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 152</td>
<td>Bassoon for Non-Majors</td>
<td>1</td>
<td>Private instruction in Bassoon for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 153</td>
<td>Cello for Non-Majors</td>
<td>1</td>
<td>Private instruction in Cello for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 154</td>
<td>Clarinet for Non-Majors</td>
<td>1</td>
<td>Private instruction in Clarinet for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 155</td>
<td>Drum Set for Non-Majors</td>
<td>1</td>
<td>Private instruction in Drum Set for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 156</td>
<td>Euphonium for Non-Majors</td>
<td>1</td>
<td>Private instruction in Euphonium for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 157</td>
<td>Flute for Non-Majors</td>
<td>1</td>
<td>Private instruction in Flute for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 158</td>
<td>Guitar for Non-Majors</td>
<td>1</td>
<td>Private instruction in Guitar for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 159</td>
<td>Harp for Non-Majors</td>
<td>1</td>
<td>Private instruction in Harp for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 160</td>
<td>Horn for Non-Majors</td>
<td>1</td>
<td>Private instruction in Horn for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 161</td>
<td>Oboe for Non-Majors</td>
<td>1</td>
<td>Private instruction in Oboe for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 162</td>
<td>Percussion for Non-Majors</td>
<td>1</td>
<td>Private instruction in Percussion for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 163</td>
<td>Piano for Non-Majors</td>
<td>1</td>
<td>Private instruction in Piano for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 164</td>
<td>Saxophone for Non-Majors</td>
<td>1</td>
<td>Private instruction in Saxophone for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 165</td>
<td>Synthesizer/MIDI for Non-Majors</td>
<td>1</td>
<td>Private instruction in Synthesizer/MIDI for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 166</td>
<td>Trombone for Non-Majors</td>
<td>1</td>
<td>Private instruction in Trombone for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 167</td>
<td>Trumpet for Non-Majors</td>
<td>1</td>
<td>Private instruction in Trumpet for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 168</td>
<td>Tuba for Non-Majors</td>
<td>1</td>
<td>Private instruction in Tuba for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 169</td>
<td>Viola for Non-Majors</td>
<td>1</td>
<td>Private instruction in Viola for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 170</td>
<td>Violin for Non-Majors</td>
<td>1</td>
<td>Private instruction in Violin for non-majors. May be repeated for credit.</td>
</tr>
<tr>
<td>MUSA 171</td>
<td>Voice for Non-Majors</td>
<td>1</td>
<td>Private instruction in Voice for non-majors. May be repeated for 4 times for credit for a maximum of 4 credits. Prerequisite: Audition required.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
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</tr>
<tr>
<td>MUSA 201</td>
<td>Bass III</td>
<td>1 (0,0,0.5)</td>
<td>Private instruction in Bass for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 102.</td>
</tr>
<tr>
<td>MUSA 202</td>
<td>Bass IV</td>
<td>1 (0,0,0.5)</td>
<td>Private instruction in Bass for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 201.</td>
</tr>
<tr>
<td>MUSA 203</td>
<td>Bassoon III</td>
<td>1 (0,0,0.5)</td>
<td>Private instruction in Bassoon for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 104.</td>
</tr>
<tr>
<td>MUSA 204</td>
<td>Bassoon IV</td>
<td>1 (0,0,0.5)</td>
<td>Private instruction in Bassoon for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 203.</td>
</tr>
<tr>
<td>MUSA 205</td>
<td>Cello III</td>
<td>1 (0,0,0.5)</td>
<td>Private instruction in Cello for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 106.</td>
</tr>
<tr>
<td>MUSA 206</td>
<td>Cello IV</td>
<td>1 (0,0,0.5)</td>
<td>Private instruction in Cello for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 205.</td>
</tr>
<tr>
<td>MUSA 207</td>
<td>Clarinet III</td>
<td>1 (0,0,0.5)</td>
<td>Private instruction in Clarinet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 108.</td>
</tr>
<tr>
<td>MUSA 208</td>
<td>Clarinet IV</td>
<td>1 (0,0,0.5)</td>
<td>Private instruction in Clarinet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 207.</td>
</tr>
<tr>
<td>MUSA 209</td>
<td>Drum Set III</td>
<td>1 (0,0,0.5)</td>
<td>Private instruction in Drum Set for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 110.</td>
</tr>
<tr>
<td>MUSA 210</td>
<td>Drum Set IV</td>
<td>1 (0,0,0.5)</td>
<td>Private instruction in Drum Set for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 209.</td>
</tr>
<tr>
<td>MUSA 211</td>
<td>Euphonium III</td>
<td>1 (0,0,0.5)</td>
<td>Private instruction in Euphonium for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 112.</td>
</tr>
<tr>
<td>MUSA 212</td>
<td>Euphonium IV</td>
<td>1 (0,0,0.5)</td>
<td>Private instruction in Euphonium for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester. Prerequisite: MUSA 211.</td>
</tr>
</tbody>
</table>
MUSA 213  Flute III  1  (0,0,0,0.5)
Private instruction in Flute for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 114.

MUSA 214  Flute IV  1  (0,0,0,0.5)
Private instruction in Flute for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 213.

MUSA 215  Guitar III  1  (0,0,0,0.5)
Private instruction in Guitar for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 116.

MUSA 216  Guitar IV  1  (0,0,0,0.5)
Private instruction in Guitar for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 215.

MUSA 217  Harp III  1  (0,0,0,0.5)
Private instruction in Harp for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 118.

MUSA 218  Harp IV  1  (0,0,0,0.5)
Private instruction in Harp for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 217.

MUSA 221  Horn III  1  (0,0,0,0.5)
Private instruction in Horn for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 122.

MUSA 222  Horn IV  1  (0,0,0,0.5)
Private instruction in Horn for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 221.

MUSA 223  Oboe III  1  (0,0,0,0.5)
Private instruction in Oboe for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 124.

MUSA 224  Oboe IV  1  (0,0,0,0.5)
Private instruction in Oboe for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 223.

MUSA 227  Percussion III  1  (0,0,0,0.5)
Private instruction in Percussion for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 128.

MUSA 228  Percussion IV  1  (0,0,0,0.5)
Private instruction in Percussion for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 227.

MUSA 229  Piano III  1  (0,0,0,0.5)
Private instruction in Piano for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 130.
MUSA 230  Piano IV  1  (0,0,0,0.5)
Private instruction in Piano for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 229.

MUSA 231  Saxophone III  1  (0,0,0,0.5)
Private instruction in Saxophone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 132.

MUSA 232  Saxophone IV  1  (0,0,0,0.5)
Private instruction in Saxophone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 231.

MUSA 233  Synthesizer/MIDI III  1  (0,0,0,0.5)
Private instruction in Synthesizer/MIDI for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 134.

MUSA 234  Synthesizer/MIDI IV  1  (0,0,0,0.5)
Private instruction in Synthesizer/MIDI for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 233.

MUSA 235  Trombone III  1  (0,0,0,0.5)
Private instruction in Trombone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 136.

MUSA 236  Trombone IV  1  (0,0,0,0.5)
Private instruction in Trombone for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 235.

MUSA 237  Trumpet III  1  (0,0,0,0.5)
Private instruction in Trumpet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 138.

MUSA 238  Trumpet IV  1  (0,0,0,0.5)
Private instruction in Trumpet for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 237.

MUSA 239  Tuba III  1  (0,0,0,0.5)
Private instruction in Tuba for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 140.

MUSA 240  Tuba IV  1  (0,0,0,0.5)
Private instruction in Tuba for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 239.

MUSA 241  Viola III  1  (0,0,0,0.5)
Private instruction in Viola for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.
Prerequisite: MUSA 142.
MUSA 242  Viola IV  1 (0,0,0,0.5)  
Private instruction in Viola for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.  
Prerequisite: MUSA 241.

MUSA 243  Violin III  1 (0,0,0,0.5)  
Private instruction in Violin for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.  
Prerequisite: MUSA 144.

MUSA 244  Violin IV  1 (0,0,0,0.5)  
Private instruction in Violin for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.  
Prerequisite: MUSA 243.

MUSA 245  Voice III  1 (0,0,0,0.5)  
Private instruction in Voice for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for third semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.  
Prerequisite: MUSA 146.

MUSA 246  Voice IV  1 (0,0,0,0.5)  
Private instruction in Voice for music majors. Students will study repertoire, scales, and technical etudes commensurate with standards established for fourth semester music majors. Required: performance on MUS 100 Recital Attendance and jury at the end of the semester.  
Prerequisite: MUSA 245.

MUSE 103  Chamber Chorale  1 (1,2.5,0,0)  
This ensemble will study and perform literature from the Renaissance time period as well as other chamber music compositions. May be repeated up to six times for credit.

MUSE 111  Concert Band  1 (1,2.5,0,0)  
This instrumental ensemble will rehearse and perform music composed for the concert band and military band genres. Open to all advanced musicians with previous band experience. May be repeated up to ten times for credit.

MUSE 121  Symphony Orchestra  1 (1,2.5,0,0)  
Rehearsal and performance of orchestral music of all periods. Required participation of scheduled performances. Audition required. May be repeated for credit.

MUSE 131  Jazz Ensemble  1 (1,2.5,0,0)  
Performance ensemble will perform standard and new big band jazz literature. Emphasis on sight-reading, improvisation, and ensemble playing. Consistent attendance and participation in public performances mandatory. May be repeated for credit.  
Prerequisite: Admission by audition only. Limited to instrumentalists.

MUSE 133  Jazz Combo  1 (1,2.5,0,0)  
Exploration and performance of small group jazz literature with improvisation. May be repeated for credit.

MUSE 135  Jazz Vocal Ensemble  1 (1,2.5,0,0)  
Explores a variety of musical styles including pop, rock, and jazz by a lively performing group. May be repeated up to six times for credit.

MUSE 141  Woodwind Ensemble  1 (1,2.5,0,0)  
Emphasis on woodwind literature from all periods. Open to college woodwind players, including saxophones, through audition or instructor approval. May be repeated six times for credit.

MUSE 146  Brass Ensemble  1 (1,2.5,0,0)  
Emphasis on brass literature from all periods. Open to college brass players through audition or instructor approval. May be repeated six times for credit.

MUSE 161  Percussion Ensemble  1 (1,2.5,0,0)  
A percussion ensemble performing musical repertoire varying from classical to jazz and pop selections. Audition required. May be repeated for credit.

MUSE 165  Steel Drum Band  1 (1,2.5,0,0)  
A performance-based class intended to provide the student with a general knowledge in the art of playing steel drums and percussion instruments related to the steel drum band.

Music – Performance

MUSE 101  Concert Choir  1 (1,2.5,0,0)  
Study and performance of representative choral music, sacred and secular, from the major musical types and historical movements. May be repeated for credit.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSE 166</td>
<td>Mariachi Band</td>
<td>1 (1,2.5,0,0)</td>
<td>This performance-based course provides students with knowledge of the Mariachi music art form, with emphasis on traditional and contemporary Mariachi literature including the Son, Ranchera, Huapango, and Bolero song styles. Prior experience is required. May be repeated up to six times for credit.</td>
</tr>
<tr>
<td>NURS 040</td>
<td>In-Facilities Nursing Assistant</td>
<td>3 (2,0,3,0)</td>
<td>Integration of knowledge and skills which focuses on the role of the nursing assistant in caring for non-critical patients. Successful completion fulfills requirements for eligibility to write the Certified Nursing Assistant examination. This course is taught only in health care facilities. Registration must be through facility where course is taught.</td>
</tr>
<tr>
<td>NURS 090</td>
<td>Tools for Nursing Success</td>
<td>1.5 (1.5,0,0,0)</td>
<td>Course is a brief introduction to nursing math through all four semesters, and to nursing process and writing care plans. Course open to all that have had acceptance into the Nursing Program.</td>
</tr>
<tr>
<td>NURS 101</td>
<td>Introduction to Professional Nursing Practice</td>
<td>6 (3,3,6,0)</td>
<td>Introduction to the practice of professional nursing focusing on nursing concepts and skills while providing nursing care to promote adaptation of middle and elderly clients in a variety of settings. Prerequisite: Admission to ADN program.</td>
</tr>
<tr>
<td>NURS 115</td>
<td>Medical-Surgical Nursing I</td>
<td>6.5 (3.5,1.5,7.5,0)</td>
<td>Focuses on the role of the professional nurse in supporting and promoting optimal adaptation of the adult medical-surgical client in acute care settings. Prerequisites: NURS 101 and NURS 125B; and BIOL 224.</td>
</tr>
<tr>
<td>NURS 125</td>
<td>Pharmacology for Nursing Practice</td>
<td>2 (2,0,0,0)</td>
<td>Integrates basic pharmacology with nursing practice. Covers drug actions, side effects, interactions, pharmacokinetics, and dosage and calculations. Prerequisite: Admission into the ADN program.</td>
</tr>
<tr>
<td>NURS 130</td>
<td>Nursing Assistant</td>
<td>6 (3,3,6,0)</td>
<td>Integration of knowledge and skills focusing on the role of the nursing assistant in caring for non-critical patients in skilled nursing facilities.</td>
</tr>
<tr>
<td>NURS 134B</td>
<td>Nursing Assistant Instructor Development</td>
<td>1 (1,0,0,0)</td>
<td>Required by Nevada State Board of Nursing, this course reviews State and Federal regulations, model curriculum, course content, and laboratory and clinical skills.</td>
</tr>
<tr>
<td>NURS 205</td>
<td>Introduction to Associate Degree Nursing</td>
<td>4.5 (3,1.5,4,0)</td>
<td>Facilitates transition from LPN to professional nursing role in promoting optimal adaptation of the adult client within the community and acute care settings. Prerequisites: Admission to ADN program, and LPN licensed in Nevada.</td>
</tr>
<tr>
<td>NURS 208</td>
<td>Professional Topics: Management Concepts and Transition into Professional Practice</td>
<td>2 (2,0,0,0)</td>
<td>Introduces the nursing student to basic management/leadership concepts as well as preparing the nursing student to assume and assimilate the role and the responsibilities of the professional nurse. Prerequisites: NURS 247 and NURS 248.</td>
</tr>
<tr>
<td>NURS 211</td>
<td>Medical-Surgical Nursing II</td>
<td>4.5 (2.25,0.75,6,0)</td>
<td>Focuses on the role of the professional nurse in supporting and promoting optimal adaptation of adult medical-surgical clients experiencing complex, multi-system dysfunction in acute critical and special care units and community settings. Prerequisites: NURS 247 and NURS 248.</td>
</tr>
<tr>
<td>NURS 240B</td>
<td>RN Refresher Course (Theory/Lab)</td>
<td>2.5 (2,1.5,0,0)</td>
<td>Assists inactive professional nurses to update their knowledge and skills in order to renew their licensure. This is the first course of a two-course series.</td>
</tr>
<tr>
<td>NURS 242B</td>
<td>RN Refresher Course (Clinical)</td>
<td>2.5 (0,0,0,7.5)</td>
<td>This is the second course of a two-course series designed to assist inactive professional nurses to update their knowledge and skills in order to renew their licensure. The student will be assigned to clinical practice under the supervision of an RN preceptor. Graded Pass/Fail. Prerequisite: NURS 240B.</td>
</tr>
<tr>
<td>NURS 243</td>
<td>Mental Health Nursing</td>
<td>4.5 (2.25,0.75,6,0)</td>
<td>Focuses on the role of the professional nurse in supporting and promoting adaptive coping responses for clients and their families in mental health and other clinical settings. APs take NURS 125B and NURS 205 concurrently. Prerequisites: NURS 125B and NURS 101; and BIOL 224.</td>
</tr>
</tbody>
</table>
NURS 247  Maternal-Newborn Nursing  4.5 (2.25,0.75,6,0)
Focuses on the role of the professional nurse in supporting and promoting adaptation of the child-bearing family during antepartum, intrapartum and postpartum periods.
Prerequisites: NURS 115 or NURS 205; and NURS 243; and BIOL 251.

NURS 248  Pediatric Nursing  4.5 (2.25,0.75,6,0)
Focuses on the role of the professional nurse in supporting and promoting adaptive coping responses for pediatric clients and their families in a variety of settings.
Prerequisites: NURS 115 or NURS 205; and NURS 243; and BIOL 251.

NURS 285  Selected Topics in Nursing  0.5-6 (0.5-6,0,0,0)
Selected nursing topics offered for specific needs of nursing students or community nurses.
Prerequisite: Nursing Program Director approval.

NURS 296  Nursing Management and Preceptorship  2.5 (0,0,7.5,0)
With guidance of a nursing preceptorship, this clinical practicum focuses on role transition from student to professional graduate nurse in the nursing management of client care. Graded Pass/Fail.
Corequisites: NURS 208 and NURS 211.

OPHT 112B  Anatomy and Physiology of the Eye and Related Structures  3 (3,0,0,0)
Designed to give the student an insight into the anatomical structure of the eye and its adnexa. The student will learn the function of the parts of the eye as they relate to vision and the fitting of contact lenses. The student will be presented with common pathologies of the eye and ocular pharmacology.

OPHT 115B  Introduction to Ophthalmic Tech  3 (3,0,0,0)
Introduction to the profession of ophthalmic technology, the roles and responsibilities of the ophthalmic technician and organizations involved in the profession with emphasis on medical/legal issues, ethics and medical economics.

OPHT 121B  Ophthalmic Optics I  5 (3,6,0,0)
History and development and manufacture of ophthalmic materials, including current industry standards. Single vision and multifocal lenses including spherical, spherocylinder and prism lenses, as well as formulae used in lens design, construction and function. Current lens catalogs are used for information and data.

OPHT 123B  Ophthalmic Optics II  5 (3,6,0,0)
Studies of multifocal lens design and construction, including bifocals, trifocals, double segment lenses, progressive and blended lenses. Lens tints, coatings, colors, filters, occupational and sport lenses will be discussed. Formulae pertinent to lens functions will be covered as well.

OPHT 125B  Ophthalmic Optics III  3 (3,0,0,0)
Principles of basic and ophthalmic optics including optical principles of light, lenses and the human eye.

OPHT 130B  Ophthalmic Procedures I  3 (2,3,0,0)
Principles and techniques of ophthalmic procedures including visual acuity measurement, lensometry, tonometry, depth perception, fusion, pupillary evaluation, history taking and color vision. Care, maintenance, calibration of instrumentation and inventory control are included.

OPHT 155B  Geometric Optics  3 (3,0,0,0)
Principles of basic and advanced optics including optical principles of light lenses, prisms and mirrors. This is a course in optical physics.

OPHT 160B  Clinical Applications I  3 (0,0,12,0)
Introductory clinical experience designed to apply skills acquired in previous course work. Experience designed to give the student an introduction to, and observation of, the ophthalmic office/hospital setting.

OPHT 161B  Ophthalmic Seminar  1 (1,0,0,0)
Lecture/discussion of clinical issues and experiences with emphasis on case studies, role playing and problem solving techniques.
OPHT 201B  Ophthalmic Dispensing I  5  (3,8,0,0)
Introduction to ophthalmic dispensing skills. Patient/client measurements, frame and lens material selection, prescription analysis and adjustment techniques will be covered. The student will develop basic lensometry skills using a manual lensometer. Students will learn and apply current ophthalmic A.N.S.I. standards. The student will learn the formulas and terminology pertinent to ophthalmic dispensing.

OPHT 202B  Contact Lenses I  3  (3,0,0,0)
Continuation of OPHT 102B. Specialty lenses will be covered, including bifocals, torque, keratoconus as well as therapeutic lenses. Overview of all contact lens-related equipment. Students will also cover various over-refraction techniques.

OPHT 203B  Contact Lenses II  1  (0,3,0,0)
Practical application of contact lens fitting procedures. Topics include modifications of contact lenses, over-refraction of contact lenses, corneal photography and problem solving techniques. Students will use case studies as well as each other to gain fitting experience.

OPHT 220B  Theory of Refractometry  3  (3,0,0,0)
The course will cover pre-testing procedures. Identify various ophthalmic equipment and identify the procedures of the objective and subjective refraction.

OPHT 223B  Ophthalmic Dispensing II  5  (3,0,8,0)
Continuation of clinical dispensing procedures, with emphasis on unusual and complex problems, including aphakia and various eye disorders.

OPHT 228B  Ocular Pharmacology and Diseases of the Eye  4  (4,0,0,0)
Principles and concepts of pharmacology with emphasis on ocular pharmacology. Terminology, abbreviations, identification, delivery systems, actions and effects of commonly used drugs, as well as related legal issues of pharmacology are included. Pathological conditions of the eye are discussed including basic characteristics of common external, internal, and systemic diseases of the eye, ocular emergencies and management.

OPHT 232B  Opticianry Management Sales  3  (3,0,0,0)
Presentation of basic principles of present day ophthalmic dispensing practices. Emphasis will be on patient communication, costs, both inventory and laboratory and computer skills, as well as general bookkeeping skills and associated dispensing practice procedures. Salesmanship and business ethics will be covered.

OPHT 235B  Ophthalmic Surgical Assistant  2  (2,0,0,0)
Fundamentals and practice of microbial control, control of infection, prevention of contamination in the medical facility, safe handling of equipment and supplies, hand-washing technique, maintaining aseptic fields and assisting the physician in common office surgical procedures.

OPHT 237B  Ophthalmic Clinical Management  3  (3,0,0,0)
Current diagnosis and treatment of ocular diseases and the technician’s role in caring for pre- and post-operative patients. Basic and practical microbiology as it relates to the diagnosis, treatment and management of ocular diseases.

OPHT 238B  Ophthalmic Applied Diagnostic Studies  3  (3,0,0,0)
Advanced diagnostic testing including ocular motility testing, potential acuity meter, ultrasonography, endothelial cell analysis, corneal topography, ophthalmic photography and electrophysiology.

OPHT 250B  Clinical Applications II  3  (0,0,12,0)
Advanced clinical experience designed to apply skills acquired in previous course work. Emphasis is placed on contact lenses and surgical assisting.

OPHT 251B  Clinical Applications Seminar  1  (1,0,0,0)
Discussion of clinical issues and experiences with emphasis on case studies, role playing and problem solving techniques.

OPHT 259B  Certificate Review  2  (2,0,0,0)
Review course for national and state competency examinations. This course may be taken up to three times: American Board of Opticianry Certification exam review, National Contact Lens Examiners certification review, and Nevada State Board of Dispensing Opticians exam review.

Physical Education

PEX 126  Intermediate Soccer  1  (0,0,0,3)
The Intermediate Soccer course is designed to teach and develop the skills required to compete in intercollegiate soccer.
Prerequisite: Instructor approval.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEX 129</td>
<td>Volleyball</td>
<td>1</td>
<td>This is a beginning level volleyball course. It will introduce all of the fundamentals of play including passing, setting, serving, spiking, defense techniques, rules of play, and offensive strategies. This class is open to students of all levels of proficiency.</td>
</tr>
<tr>
<td>PEX 129A</td>
<td>Volleyball</td>
<td>1</td>
<td>This course follows PEX 129. It is an intermediate/advanced level open volleyball course that reviews all of the fundamentals of volleyball through game play. Prerequisite: PEX 129 or Instructor approval.</td>
</tr>
<tr>
<td>PEX 180</td>
<td>Strength Training</td>
<td>1</td>
<td>Introductory course that gives students a beginning knowledge of machine weights and free weights. Skeletal and muscle anatomy are introduced and the students are shown how they are affected by resistance and weight training. Provides introduction on how to stay healthy throughout one’s life.</td>
</tr>
<tr>
<td>PEX 184</td>
<td>Conditioning, Intercollegiate Athletics</td>
<td>1</td>
<td>Intermediate conditioning course designed to prepare students to participate in intercollegiate athletics. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 186</td>
<td>Intercollegiate Baseball</td>
<td>1</td>
<td>Beginning course participation on the intercollegiate baseball team. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 193</td>
<td>Intercollegiate Soccer</td>
<td>1</td>
<td>The Intercollegiate Soccer course is designed for beginning participation on an intercollegiate soccer team.</td>
</tr>
<tr>
<td>PEX 194</td>
<td>Intercollegiate Softball</td>
<td>1</td>
<td>The Intercollegiate Softball course is designed for beginning participation on the intercollegiate softball team. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 198</td>
<td>Intercollegiate Volleyball</td>
<td>1</td>
<td>The intercollegiate Volleyball course is designed for beginning participation on an intercollegiate Volleyball team. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 214</td>
<td>Intermediate Softball</td>
<td>1</td>
<td>The Intermediate Softball course is designed to teach and develop the skills required to compete in intercollegiate softball. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 215</td>
<td>Intermediate Volleyball</td>
<td>1</td>
<td>The Intermediate Volleyball course is designed to teach and develop the skills required to compete in intercollegiate volleyball. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 216</td>
<td>Intercollegiate Baseball</td>
<td>1</td>
<td>Baseball course designed to teach and develop the skills required to compete in intercollegiate baseball. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 226</td>
<td>Advanced Soccer</td>
<td>1</td>
<td>The Advanced Soccer course is designed to teach and develop advanced skills required to compete in intercollegiate soccer.</td>
</tr>
<tr>
<td>PEX 230</td>
<td>Intermediate Intercollegiate Volleyball</td>
<td>1</td>
<td>Intermediate participation on the intercollegiate volleyball team. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 234</td>
<td>Advanced Softball</td>
<td>1</td>
<td>The Advanced Softball course is designed to teach and develop advanced skills, philosophies, and knowledge acquired in intercollegiate softball. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 235</td>
<td>Advanced Volleyball</td>
<td>1</td>
<td>The Advanced Volleyball course is designed to teach and develop advanced skills required to compete in intercollegiate volleyball. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 246</td>
<td>Advanced Baseball</td>
<td>1</td>
<td>An advanced baseball course designed to teach and develop advanced skills, philosophies and knowledge required to compete in intercollegiate baseball. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 280</td>
<td>Advanced Strength Training</td>
<td>1</td>
<td>This course gives students knowledge of advanced lifting techniques on weight machines and free weights. Students will learn how skeletal and muscle anatomy are affected by different lifting practices. Course provides constructive nutrition plans. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 284</td>
<td>Intermediate Conditioning, Intercollegiate Athletics</td>
<td>1</td>
<td>Advanced conditioning course designed to prepare students to participate in intercollegiate athletics. Prerequisite: Instructor approval.</td>
</tr>
<tr>
<td>PEX 286</td>
<td>Intermediate Intercollegiate Baseball</td>
<td>1</td>
<td>Intermediate course participation on the intercollegiate baseball team. Prerequisite: Instructor approval.</td>
</tr>
</tbody>
</table>
PEX 293  Intermediate collegiate soccer  1 (0,0,0,6)
Intermediate participation on the intercollegiate soccer team.
Prerequisite: Instructor approval.

PEX 294  Intermediate collegiate softball  1 (0,0,0,6)
The Intermediate Intercollegiate Softball course is designed for second-year participation on the intercollegiate softball team.
Prerequisite: Instructor approval.

Pharmacy Technician

PHAR 100B  Introduction to Pharmacy Practice  3 (3,0,0,0)
To provide an overview of the pharmacy profession and the roles of the pharmacist and the pharmacy technician. Topics include profession evolution, pharmacy law and ethics, professional standards, pharmacy operations, professionalism, and employment.
Prerequisite: Admission to the Pharmacy Technician Program.

PHAR 101B  Pharmacy Techniques  4 (2,6,0,0)
To provide an overview of pharmaceutical preparation and compounding techniques. Topics including dosage forms, facilities and equipment, aseptic technique, quality control, and record keeping.
Prerequisite: Admission to the Pharmacy Technician Program.

PHAR 105B  Pharmaceutical Math for Technicians  3 (3,0,0,0)
A practical approach to pharmaceutical math calculations designed to provide students with the skills, training, and techniques necessary for successful comprehension and mastery of relevant pharmaceutical computations.
Prerequisite: Admission to the Pharmacy Technician Program.

PHAR 110B  Pharmacology I  3 (3,0,0,0)
An overview of the pharmacokinetics between the body systems and particular classes of drugs. Introduces a framework of knowledge and principles about the classifications, purposes, side effects, cautions and interactions of medications.
Prerequisite: Admission to the Pharmacy Technician Program.

PHAR 115B  Pharmacology II  3 (3,0,0,0)
This course is designed to provide an advanced study of the pharmacological framework. Topics include therapeutic utility, drug classifications, drug actions, side effects, contraindications, and interactions.
Prerequisite: PHAR 110B.

PHAR 120B  Pharmacy Microcomputers  2 (1,2,0,0)
A computer-based laboratory course designed to introduce students to the fundamentals of computer and database applications unique to pharmacy practice settings.
Prerequisite: PHAR 101B.

PHAR 126B  Pharmacy Technician Practicum  7 (0,0,21,0)
This course is designed to provide students with on-site supervised experiential training in a regional pharmacy. The focus of this training will be on the role and responsibilities of Pharmacy Technicians; to include professionalism, prescription processing, customer service, and pharmacy operations.
Prerequisites: PHAR 101B and PHAR 105B and PHAR 110B all with a grade of C or higher.

Philosophy

PHIL 101  Introduction to Philosophy  3 (3,0,0,0)
A study of philosophy as an interpretation of human experience and an examination of concepts and assumptions fundamental in human thought.

PHIL 101H  Introduction to Philosophy – Honors  3 (3,0,0,0)
An Honors-level study of philosophy as an interpretation of human experience and an examination of concepts and assumptions fundamental in human thought. Honors emphasizes both interactive and independent learning entailing an in-depth examination of one’s thinking on philosophical questions through use of the Socratic Method. Courses with “H” suffixes are designated Honors-level courses and can be used to fulfill equivalent general education requirements.
Prerequisite: Admission to the Honors program.

PHIL 102  Critical Thinking and Reasoning  3 (3,0,0,0)
Introduction to the analysis and evaluation of actual arguments, to the practice of constructing logically sound arguments, and to logic as the theory of argument. Emphasizes arguments of current or general interest.

PHIL 102H  Critical Thinking and Reasoning - Honors  3 (3,0,0,0)
An honors level course in reasoning and argumentation through the analysis and evaluation of actual arguments, the construction of logically sound arguments, and an honors level understanding of the theory of reasoning and argumentation. Honors emphasizes both interactive and independent student mastery of critical thinking entailing a deeper analysis and evaluation of reasoning and arguments found in a wide range of print and electronic sources. Courses with “H” suffixes are designated Honors level courses and can be used to fulfill equivalent general education requirements. This course can fulfill the Analytic Reasoning portion of the requirements.
Prerequisite: Admission to the Honors program.
PHIL 114 Introduction to Symbolic Logic 3 (3,0,0,0)
Introduces principles of correct reasoning, using modern symbolic techniques of the propositional calculus and simple quantification theory.

PHIL 115 Philosophy of Death and Dying 3 (3,0,0,0)
A philosophical study of concepts and theories surrounding death and dying. The course will examine different philosophical and/or cultural attitudes and beliefs concerning issues such as, but not limited to, preparation for death, fear of death, immortality, grief and commemoration of the dead.

PHIL 119 Introduction to the Old Testament 3 (3,0,0,0)
General survey of the books of the Old Testament from a nondenominational perspective. Covers the history, ideas and theological beliefs of Biblical Israel and deals with those themes in the light of archeological research and literary criticism.

PHIL 124 Philosophical Traditions of Asia 3 (3,0,0,0)
Study of the nature of self, mind, knowledge, truth, logic, and related themes characteristic of India, China, Japan, or any other Asian country.

PHIL 129 Introduction to the New Testament 3 (3,0,0,0)
This course surveys New Testament books from a nondenominational perspective. Literary criticism and historical background are considered.

PHIL 131 Introduction to Metaphysics 3 (3,0,0,0)
Selected problems concerning human nature and reality, e.g., mind and body, freedom and determinism, space and time, God, causality.

PHIL 135 Introduction to Ethics 3 (3,0,0,0)
A course designed to introduce students to the theory and practice of ethics. In the context of classical theories and modern moral problems, students will be encouraged to clarify their own ethical positions.

PHIL 201 Philosophy Goes to the Movies 3 (3,0,0,0)
Introduction to philosophical problems in ethics, politics, law, aesthetics, metaphysics, or knowledge through film and literary materials in addition to standard philosophical texts.

PHIL 202 Introduction to Philosophy of the Arts 3 (3,0,0,0)
Varieties of artistic representation and expression, the relationship of artworks to their embodiments, and the nature of interpretation and aesthetic response.

PHIL 203 Survey of Existentialism 3 (3,0,0,0)
A survey of the various influences and responses which led to existential thought. Readings from Kierkegaard, Sartre, Nietzsche and Buber will be emphasized.

PHIL 205 Science and Religion 3 (3,0,0,0)
Selected problems and episodes in the interaction between science and religion, such as the seventeenth century condemnation of Galileo, the eighteenth century controversy about natural religion, and the recent creation/evolution debate in the United States.

PHIL 207 Social and Political Philosophy 3 (3,0,0,0)
Major political philosophers, e.g., Plato, Aristotle, Machiavelli, Hobbes, Rousseau, Mill, and Marx, on topics such as justice, freedom, equality, tyranny, war, racism, sexism, power, consent, and economics.

PHIL 210 World Religions 3 (3,0,0,0)
A critical introduction to the nature of religion. The major moral and religious views of Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity and Islam will be studied.

PHIL 211 Introduction to Ancient Philosophy 3 (3,0,0,0)
A broad survey of ancient philosophy from the pre-Socratics to the later Hellenistic schools, with emphasis on Plato, Aristotle, Neoplatonism and recurring themes.

PHIL 215 Introduction to Philosophy of Religion 3 (3,0,0,0)
An introductory philosophical examination of some claims and problems within the Western tradition including, but not limited to, the nature of God, arguments for the existence of God, the problem of evil, divine foreknowledge and human freedom, arguments for/against personal immortality, and faith/reason as alternative avenues to belief.

PHIL 216 Philosophy of Human Nature 3 (3,0,0,0)
This course explores a variety of traditions on what human nature is. We will study both Western and Eastern religious concepts, classical and modern philosophical theories, and scientific theories and models of human nature.

PHIL 217 Introduction to the Study of Marxism 3 (3,0,0,0)
Exploration of the fundamental concepts of the views of Karl Marx as well as other historical and contemporary Marxist thinkers.

PHIL 244 Bioethics 3 (3,0,0,0)
Treatments of such issues as abortion and euthanasia, cloning, genetic screening, just health care, patients’ rights, the use of human and animal subjects in research.
PHIL 245  Contemporary Moral Issues  3 (3,0,0,0)
Introduction to ethics by way of such current issues as war and atrocity, the purpose of the university, racism, women’s liberation, violence and aggression, the notions of happiness and success, or ethics of ecology.

PHIL 246  Philosophy of Law  3 (3,0,0,0)
Study of the meaning of law, particularly legal reasoning, positive and normative functions of law, and the nature of justice. Such legal theorists as Plato, Aquinas, Hobbes, Kant, Hegel, Hart, and Dworkin will be studied.

PHIL 247  Philosophy and Women  3 (3,0,0,0)
Variety of philosophical writings by or about women, from Plato to the present, focusing on such key concepts as nature, equality, dignity, freedom, love, and self-realization; may include feminist critiques of the Western philosophical tradition. (Same as WMST 247.)

PHIL 249  Environmental Ethics  3 (3,0,0,0)
Explores fundamental concepts of human moral obligations towards other living things and natural systems. Topics include the rights of animals and new candidates for an adequate environmental ethic.

PHIL 295  Topical Issues in Philosophy  1-3 (1-3,0,0,0)
The topic will vary; however, the intent is to develop awareness of, and appreciation for, certain philosophers and/or issues. May be repeated to six credits.

PHIL 302  Intermediate Reasoning and Critical Thinking  3 (3,0,0,0)
Designed to extend the theory and practice of reasoned argument by the analysis, evaluation, reconstruction, and construction of extended examples drawn from such fields as philosophy, literature, religion, natural and social sciences, the arts, or contemporary affairs.

Prerequisites: Admission to Dental Hygiene Bachelor of Science Degree Program or Medical Laboratory Scientist Bachelor of Applied Science Degree Program or Cardiorespiratory Sciences Bachelor of Applied Science Degree Program or Instructor approval.

PHIL 311  Professional Ethics  3 (3,0,0,0)
A study of the nature of ethical thinking and its application to judgments about actions of people that make up society. Topics to be considered include ethical relativism, moral virtues and vices, foundations of morality, alternative theoretical perspectives on moral judgment egoism, altruism, and legal and regulatory perspectives related to ethics in business.

Prerequisites: Admission to Dental Hygiene Bachelor of Science Degree Program, Medical Laboratory Scientist Bachelor of Applied Science Degree Program, Cardiorespiratory Sciences Bachelor of Applied Science Degree Program or Instructor approval.

Photography

PHO 101B  Beginning Photography  3 (2,2,0,0)
Fundamental techniques and use of photographic equipment using digital capture. Includes history of photography, its language and major styles, camera handling, exposure, basic image adjustments using digital software, image printing and presentation. Special emphasis on Digital Asset Management.

PHO 102B  Digital Photographic Imaging I  3 (2,2,0,0)
Introduction to basic digital image manipulation via layers, layer masks, color correction, and retouching. Scans of film and prints along with digital captures will be used. Students must be familiar with computer navigation, and saving files to portable hard drives and various disks. Students are encouraged to take this class simultaneously with PHO 101B.

PHO 103B  Introduction to Lighting  3 (2,2,0,0)
Introduces students to basic photographic lighting principles covering the use of quartz-halogen lights, on-camera flash, and studio strobes for product and portrait photographs. A critical approach to imagery will be emphasized.

Prerequisite: PHO 101B.

PHO 106B  The Art of Visual Persuasion  3(2,2,0,0)
This course offers practical analysis of persuasive imagery as it is used to advertise products. Students will produce effective visual campaigns drawing on compositional and psychological techniques to evoke intended responses from targeted viewers. Through the study of both contemporary and historical ads, students will determine what makes them so powerful and will adapt those principles to create fictional advertisements for a wide range of markets.

Prerequisite: PHO 101B and PHO 102B.

PHO 107B  Psychology of Photography  3 (2,2,0,0)
Explores photography and visual media from a psychological perspective. Examines photography through analysis of perception, personality, self-image, and emotional awareness and expression. This introductory class has been designed as an interdisciplinary approach to photography and psychology, and will benefit those with experience in either area. Basic photographic skills will be used in practical exercises/assignments. A limited number of cameras will be available for checkout.

Prerequisite: PHO 101B.

PHO 109B  Adobe Photoshop Lightroom Bootcamp  1 (0.5,2,0,0)
This 5-session tutorial class is for the beginning student who wishes to learn the essentials of this photo editing software program. It is highly recommended students take this course that are enrolled in or plan to take PHO 101B. Students need to have their own camera card reader, access to a camera that is capable of capturing photos in RAW format and be familiar with computers. Basic computer and photography knowledge is recommended.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHO 112B</td>
<td>Digital Photographic Imaging II</td>
<td>3 (2,2,0,0)</td>
<td>Prerequisites: PHO 102B; or GRC 183B; or Instructor approval.</td>
</tr>
<tr>
<td>PHO 116B</td>
<td>Introduction to Photojournalism</td>
<td>3 (2,2,0,0)</td>
<td>Prerequisite: PHO 103B.</td>
</tr>
<tr>
<td>PHO 120B</td>
<td>Experimental Lighting</td>
<td>3 (2,2,0,0)</td>
<td>Prerequisite: PHO 103B or Instructor approval.</td>
</tr>
<tr>
<td>PHO 125B</td>
<td>Photographic Composition and Design</td>
<td>2 (1,2,0,0)</td>
<td>Prerequisite: PHO 103B or Instructor approval.</td>
</tr>
<tr>
<td>PHO 128B</td>
<td>Night Photography I</td>
<td>3 (2,2,0,0)</td>
<td>Prerequisite: PHO 101B.</td>
</tr>
<tr>
<td>PHO 131B</td>
<td>Splash!</td>
<td>3 (2,2,0,0)</td>
<td>Prerequisite: PHO 103B.</td>
</tr>
<tr>
<td>PHO 136B</td>
<td>Las Vegas Document</td>
<td>3 (2,2,0,0)</td>
<td>Prerequisite: PHO 103B.</td>
</tr>
<tr>
<td>PHO 138B</td>
<td>Prime Document</td>
<td>3 (2,2,0,0)</td>
<td>In this class, the student will photograph with one body and one prime lens (fixed focal length lens, no zooms) for an entire semester. The student will explore Las Vegas with weekly shoots, focusing on people, cityscapes, and the juxtaposition of life. Work will be shared using current online trends such as blogging, Tumblr and Flickr.</td>
</tr>
<tr>
<td>PHO 141B</td>
<td>Introduction to Forensic Photography</td>
<td>4 (2,4,0,0)</td>
<td>Introduction into practical control of crime scenes and their documentation photographically as evidence. Emphasis on the admissibility of photography into the chain of evidence.</td>
</tr>
<tr>
<td>PHO 154B</td>
<td>Digital Photography for the Novice I</td>
<td>3 (2,2,0,0)</td>
<td>This course is an introduction to the mechanics and use of traditional photographic language applied to the digital format. It will cover digital image capture, image downloading to computer, downsizing images, emailing, and posting them to the web. This class is a very BASIC class meant for people new to digital technology.</td>
</tr>
<tr>
<td>PHO 155B</td>
<td>Digital Photography for the Novice II</td>
<td>3 (2,2,0,0)</td>
<td>This course is an intermediate course designed to manipulate and fine tune pictures through Photoshop.</td>
</tr>
<tr>
<td>PHO 156B</td>
<td>Digital Photography for the Creative Mind I</td>
<td>3 (2,2,0,0)</td>
<td>This course is an introduction to the mechanics and use of digital technology to create and/or manipulate images into more artistic pieces. This class is very basic and meant for students new to digital technology. This course provides a fun learning experience that allows the student to experiment and use their imagination.</td>
</tr>
<tr>
<td>PHO 158B</td>
<td>Photoshop for the Creative Mind</td>
<td>4 (2,4,0,0)</td>
<td>The main goal of this course is to leverage Photoshop as a tool for creating unprecedented uniquely enhanced photographic artwork specific to the student’s personal creative style and expression. The course will cover creative methods, functions, and tools of Photoshop for ground-breaking results.</td>
</tr>
<tr>
<td>PHO 160B</td>
<td>Digital Photography for the Creative Mind II</td>
<td>4 (2,4,0,0)</td>
<td>This course is an advanced exploration into the mechanics and use of digital technology to create fine art pieces. In this class, the student will enjoy creative license and full use of her/his imagination. This class is an advanced class for those students already familiar with traditional and digital photography, as well as digital technology, i.e., hardware and software.</td>
</tr>
</tbody>
</table>
PHO 165B Photographic Presentations 3 (2,2,0,0)
Introduction to commercial presentation of photographic art. Emphasis is placed on current trends, web to traditional outlets, framing, matting, and placement of photographic art for salability from the commercial to the fine art worlds.

PHO 166B History of Photography 3 (3,0,0,0)
Development of photography as an aesthetic medium from its invention to the present time in America and Europe.

PHO 178B Wedding Photography 3 (2,2,0,0)
This course focuses on essential techniques for composing and photographing weddings in various settings. Digital workflow and customary business practices will also be addressed. An emphasis on effective human relations in all aspects of client service will enhance the chances for student success in this challenging field.
Prerequisite: PHO 103B.

PHO 180B Creative Photography I 3 (2,2,0,0)
A practical, analytical, and critical approach to creative color and black and white photography. Emphasis on creative image exposure and creative digital darkroom processes.
Prerequisite: PHO 103B.

PHO 181B Creative Photography II 3 (2,2,0,0)
This course deals with creating unusual and non-traditional photographic images through the use of toy cameras, darkroom manipulation, and theme interpretation.
Prerequisite: PHO 180.

PHO 182B Alternative Photographic Processes 3 (2,2,0,0)
Introduction into non-traditional and historical photographic processes. Emphasis is placed primarily on non-silver techniques, processes, and large format Polaroid image and emulsion transfers.
Prerequisite: PHO 103B.

PHO 183B Sports and Entertainment Photography 3 (2,2,0,0)
Learn the basics of this exciting specialty area including boxing matches, concerts, shows, clubs, and celebrities. This course will feature several location shoots at major venues in Las Vegas.
Prerequisite: PHO 103B.

PHO 186B Photographing the Heritage of the West 3 (2,2,0,0)
A field course with classroom critiques focusing on locating, interpreting and effectively photographing natural and cultural resources found in the Southwestern United States. Film, digital, or hybrid approaches can be used to shoot various stock and magazine type assignments.
Prerequisite: PHO 101B.

PHO 188B Nature Photography 4 (2,4,0,0)
The study of nature photography with an emphasis on biological and geological studies and specimens. All film formats are applied to field photography studies. Field trips are scheduled with participation required.
Prerequisite: PHO 101B.

PHO 189B Contemporary Scenic Photography 3 (2,2,0,0)
Instruction in the creation of visionar scenic images. This course focuses on cutting-edge techniques used in scenic photography (including HDR and panoramic imaging) and offers insightful examination of methods for producing work that expresses the beauty of the real world we experience. There will be optional weekend field trips offered.
Prerequisite: PHO 101B.

PHO 190B Landscape Photography 3 (2,2,0,0)
Learn to work in the style of the master landscape photographers. Heavy emphasis on Zone System work. There will be several weekend field trips into the southwest region where students will have the opportunity to create fine art quality prints for exhibition.
Prerequisite: PHO 101B.

PHO 195 Photographic Lighting 4 (2,4,0,0)
Introduction to control and modification of natural light and studio applications of quartz and electronic flash lighting equipment. Commercial/illustration, portrait, and photojournalistic applications stressed.
Prerequisite: PHO 103B.

PHO 200 Color Photography I 3 (2,2,0,0)
This course covers color in the digital world, from capture to print; from psychology to calibration. Students will learn to use color and produce accurate exhibition quality prints.
Prerequisite: PHO 103B.

PHO 203B Photo Bookmaking Process 3 (2,2,0,0)
For many artists, the handmade book occupies a spot near the top of the food chain of creative self-expression. In this course, photographers will learn how to create a photographic book that best reflects your imagery for both self-promotion and commercial applications.
Prerequisite: PHO 103B.

PHO 208B Large Format Photography I 3 (2,2,0,0)
Introduction to large format camera and how it is used in a commercial environment with an emphasis on in-camera focus and perspective corrections. Students will be provided with large format view cameras to use in the studio and on location.
Prerequisite: PHO 195.
PHO 209B  Large Format Photography II  3 (2,2,0,0)
Advanced techniques in the use of view cameras. Includes both field and studio applications and extends the introductory course to new creative directions.
Prerequisite: PHO 208B.

PHO 210B  Architectural Photography  3 (2,2,0,0)
Learn the art of creating exciting images of both exteriors and interiors.
Prerequisite: PHO 195.

PHO 211B  Editorial Photography  3 (2,2,0,0)
Students will be introduced to editorial photography with an emphasis on illustrating story ideas. Interpretation of assignments and location portrait lighting will be covered. Students will be given a variety of assignments taken from actual editorial photographers.
Prerequisite: PHO 103B.

PHO 212B  Food Photography and Styling I  4 (2,4,0,0)
This course is designed to introduce students to the fundamentals of prepping and photographing food for various layouts.
Prerequisite: PHO 195.

PHO 225  Photographic Commercial/ Illustration I  3 (2,2,0,0)
Students will assume the role of a commercial photographer and complete weekly assignments from wide variety of subjects. Topics covered will include subject setup and lighting for food, automotive and architectural interior photography among others.
Prerequisite: PHO 195.

PHO 228B  Motion Bootcamp  1 (2,2,0,0)
This 5-session bootcamp covers the introductory essentials of accessing and utilizing Motion (part of Apple’s Final Cut Studio package of programs). Not for the beginner, student must be skilled in Final Cut Pro.
Prerequisite: PHO 220B.

PHO 233B  Digital Portrait Enhancement  3 (2,2,0,0)
This course will cover cosmetic retouching, glamour enhancement, retouching with large group photographs, digital body reshaping, and digital lighting enhancement.
Prerequisite: PHO 102B or GRC 183B or Instructor approval.

PHO 235  Photographic Portraiture I  4 (2,4,0,0)
Explores photographing people in a variety of environments. Students will study, practice, and produce portrait techniques of individuals, couples, and various other groupings. Special emphasis will be placed on creating professional caliber images suitable for portrait studio sales. All images created will be printed and mounted according to portrait industry standards.
Prerequisite: PHO 195.

PHO 237B  Photographic Portraiture II  3 (2,2,0,0)
This course expands on the knowledge of portraiture by creating new ways of seeing and photographing people. Current trends and styles of portrait photography will be covered.
Prerequisite: PHO 235.

PHO 238B  High School Senior Portraits  3 (2,2,0,0)
This course is an introduction to Senior Portrait Photography. It will cover branding, style, trends, location scouting, posing, pricing, marketing, and social media.
Prerequisite: PHO 103B.

PHO 239B  Hollywood Glamour  3 (2,2,0,0)
Study of the photographic techniques used by glamour photographers of the 1930s-1940s, including C. S. Bull and George Hurrell. Students will work with hot lights and learn Photoshop retouching methods in order to emulate the work of icon Hollywood photographers.
Prerequisite: PHO 195.

PHO 241B  Forensic Photography II  4 (2,4,0,0)
Advanced level photo techniques to document crime scenes and prepare court quality presentations. Multiple flash night photography, biological evidence photo enhancement, alternate light sources, and more.
Prerequisite: PHO 141B.

PHO 247B  Fashion Photography  3 (2,2,0,0)
This course is designed as an introductory course of the fundamentals of fashion photography for editorial and advertising purposes. It will encompass black and white and color negative, and transparency films. Studio and location lighting emphasized.
Prerequisite: PHO 195.

PHO 251B  Digital Photographic Imaging III  3 (2,2,0,0)
In this course students will explore the newest trends and techniques in the fields of commercial and fine art photography, including advanced selection techniques and master printing philosophies. You will be exploring content, sequencing and presentation of your digital work.
Prerequisite: PHO 250B or Instructor approval.

PHO 254B  Big Digital  3 (2,2,0,0)
This course will use medium format digital backs, Pro DSLRs and professional scanners to produce large digital files. Using these files, we will print to professional wide format printers.
Prerequisite: PHO 112B or Instructor approval.
PHO 260B Photographic Business Practices 3 (3,0,0,0)
Fundamental photographic business organization, funding and management, to include equipment, personnel, and advertising needs.
Prerequisite: PHO 195.

PHO 262B Photographic Makeup 3 (2,2,0,0)
This course provides instruction in basic elements of makeup for portraiture, glamour, fashion, wedding, and commercial photography using time tested methods and techniques in a creative hands-on environment.
Prerequisite: PHO 101B.

PHO 265B Photographic Equipment and Set Construction 3 (2,2,0,0)
Construction of basic photographic studio backgrounds, diffusion systems, props and equipment support systems. Simplified photographic set construction.

PHO 270B Product Photography 3 (2,2,0,0)
In this course students will learn advanced studio product lighting techniques, production, and professional digital workflow methods. Emphasis is on analyzing, refining, and perfecting commercial photograph lighting skills current in today’s industry.
Prerequisite PHO 195.

PHO 278 Art and Photography in 20th Century Mexico 3 (3,0,0,0)
This course examines the contributions made by Mexican artists and photographers to twentieth century visual culture. The focus is on the “Mexican Renaissance” of the 1920s and 1930s: in particular, the revival of the fresco tradition and the effect it had on artistic production. Other topics include: the print tradition, easel painting, and the development of Mexican photography. (Same as ART 278.)

PHO 279B Wedding Photography II 3 (2,2,0,0)
Covers advanced lighting techniques for wedding photography emphasizing the creative use of off-camera strobes. Imaginative thematic content and contemporary techniques for posed and candid shots will be discussed. Engagement portraiture, image retouching, and effective methods for the presentation of the final images will be included. Digital asset management and marketing strategies will be addressed in-depth.
Prerequisite: PHO 178B.

PHO 281B The Figure: Classic and Contemporary Images 4 (2,4,0,0)
A self-driven course for advanced photo students that focuses on the study of the human form. Students will synthesize the unique styles of fine and photographic art to produce their own body of work, reflecting a personal vision and integrating the knowledge of the Old Masters as well as contemporary iconic photographers. The class includes modern perspectives such as Pin-Up and Commercial Advertising styles.
Prerequisites: PHO 235 and Instructor approval.

PHO 285 Photographic Internship 3 (0,0,0,30)
Student placement at a commercial photography job location. On-the-job experience performing work projects reflecting industry employee assignments. Academic credit earned, with or without wages. Enrollment by Instructor approval only.

PHO 289B Special Topics for Photography 1-3 (0,3-9,0,0)
Special topics related to photography. Topics will vary depending on student and industry demand. This course may be repeated up to a maximum of nine credits.
Prerequisite: Instructor approval.

PHO 295B Portfolio 2 (2,0,0,0)
In this course, the student works with the instructor guiding the student in the selection, editing, and execution of a portfolio of images for the student to use in a print, online, and other portfolio formats.
Prerequisites: PHO 225 and PHO 235 and PHO 260B.

Physics

PHYS 110 Conceptual Physics 4 (4,0,0,0)
Introduction to fundamental concepts and principles of physics. Intended primarily for non-science majors. Integration of lecture and lab designed to satisfy the lab science general education requirement.

PHYS 151 General Physics I 4 (3,3,0,0)
General physics primarily for students in Arts and Science, medicine and agriculture. Includes study of mechanics, sound, and heat. A knowledge of right angle trigonometry is desired.
Prerequisite: MATH 128 (or equivalent combination of MATH 126 and MATH 127).

PHYS 152 General Physics II 4 (3,3,0,0)
Continuation of PHYS 151. Covers optics, electromagnetism and some aspects of modern physics.
Prerequisite: PHYS 151.
PHYS 180  Physics for Scientists and Engineers I  3 (3,0,0,0)
Lecture in Newtonian mechanics. Covers rectilinear motion, particle dynamics, work and energy, momentum and collision, rotational mechanics, oscillations, wave motion, and gravitation. Note: Students should have successfully completed MATH 181 before taking this course.
Corequisite: PHYS 180L.

PHYS 180L  Physics for Scientists and Engineers Lab I  1 (0,3,0,0)
Laboratory exercises in Newtonian mechanics. Covers rectilinear motion, particle dynamics, work and energy, momentum and collision, rotational mechanics, oscillations, wave motion, and gravitation. Note: Students should also be enrolled in PHYS 180 while taking this lab course.
Prerequisite: PHYS 181.

PHYS 181  Physics for Scientists and Engineers II  3 (3,0,0,0)
Lecture in electromagnetism, Coulomb’s law, electric and magnetic fields, Gauss’ law, potential, capacitance, current and resistance, electromotive force, inductance, motion of charged particles, introduction to Maxwell’s equations and electromagnetic waves.
Corequisite: PHYS 181L.

PHYS 181L  Physics for Scientists and Engineers Lab II  1 (0,3,0,0)
Laboratory exercises in electromagnetism. Covers Coulomb’s law, electric and magnetic fields, Gauss’ law, potential, capacitance, current and resistance, electromotive force, inductance, motion of charged particles, introduction to Maxwell’s equations and electromagnetic waves.
Prerequisites: PHYS 180 and MATH 182.

PHYS 182  Physics for Scientists and Engineers III  3 (3,0,0,0)
Lecture in fluid mechanics, thermodynamics and optics. Covers sound, temperature and thermometry, heat, gases, intermolecular forces, kinetic theory, entropy, nature of light, geometrical optics, physical optics including diffraction and interference, introduction of modern developments.
Corequisite: PHYS 182L.

PHYS 182L  Physics for Scientists and Engineers Lab III  1 (0,3,0,0)
Laboratory exercises in fluid mechanics, thermodynamics and optics. Covers sound, temperature and thermometry, heat, gases, intermolecular forces, kinetic theory, entropy, nature of light, geometrical optics, physical optics including diffraction and interference, introduction of modern developments.
Prerequisites: PHYS 180 and MATH 182.

Practical Nursing

PN 100L  Practical Nursing Learning Lab  1 (0,3,0,0)
A lab to promote student nurse success by applying study skills, time management, critical thinking, and organizational skills to current course load in a collaborative and caring environment.
Prerequisite: Admission to the PN program.

PN 101B  Introduction to Practical Nursing  2 (2,0,0,0)
Explore health care delivery systems, nursing history, current trends in nursing, role of the Licensed Practical Nurse, the nursing process, legal and ethical responsibilities and communication.
Prerequisite: Admission to the PN program.

PN 103B  Gerontological Health Care  2 (2,0,0,0)
Designed to discuss the holistic aspects of aging and the increasing health needs of the older adult.

PN 104B  Practical Nursing Fundamentals  5 (2.5,3,4.5,0)
Applies basic nursing skills, nursing process, basic communication, mental health concepts, medication administration skills, calculation skills and legal and ethical responsibilities of the practical nurse in the care of the client with stable health care needs. Develops intravenous therapy skills. Clinical experience in long-term or sub-acute care setting.
Prerequisite: PN 101B.

PN 105B  Practical Nursing I  5 (2.5,3,4.5,0)
Continued application of nursing process, mental health concepts, medication administration skills, calculation skills, intravenous therapy skills and legal-ethical issues. Study of health disorders presented by body system sequence. Clinical practice in long-term or sub-acute care setting.
Prerequisite: PN 104B.

PN 106B  Family Nursing  3 (2.5,0,1.5,0)
Emphasizes normal growth and development and prevention, promotion, and maintenance of health while providing family health care. Focus on child bearing, the neonate, infant and children through the growth years.
Prerequisite: PN 105B.

PN 107B  Adult Health Nursing  4.5 (2.5,3,3,0)
Applies nursing skills, nursing process, therapeutic communication, mental health concepts, medication administration, calculation skills, and legal and ethical responsibilities of the practical nurse in the care of adults and older adults in the long-term care setting.
PN 108B  Practical Nursing II  4 (2,0,6,0)
A continuation of PN 105B, this course applies the nursing process when providing nursing care to adult clients with stable health care needs in the acute care setting.

PN 109B  Adult Health Nursing 2  4.5 (2,5,3,3,0)
Applies nursing skills, nursing process, therapeutic communication, mental health concepts, medication administration, calculation skills, and legal and ethical responsibilities of the practical nurse in the care of adults and older adults in acute and ambulatory care settings.

PN 110B  Practical Nursing Leadership/Management Concepts 4 (2,0,6,0)
The seminar emphasizes career opportunities and responsibilities as well as NCLEX-PN preparation. The clinical component includes a preceptorship.
Prerequisite: PN 108B

PN 111B  Practical Nursing Leadership/Management 3 (3,0,0,0)
The course emphasizes roles and responsibilities of the LPN in Nevada, transition from Military Medic/Corpsman to LPN, career opportunities, leadership and management concepts, and NCLEX-PN preparation.

PN 125B  Pharmacology for Practical Nursing Practice 3 (3,0,0,0)
Integrates basic pharmacology with nursing practice. Covers drug actions, side effects, interactions, pharmaco-kinetics, and dosage calculations.
Prerequisite: Completion of PN 101B.

PN 240B  LPN Refresher 2.5 (2,1.5,0,0)
Assists inactive practical nurses to update their knowledge and skills in order to renew their license. This is the first course of a two-course series and must be successfully completed prior to beginning the precepted clinical course. Students are expected to complete both courses within three semesters.

PN 242B  LPN Refresher (Clinical) 2.5 (0,0,0,7.5)
This course is the second course of a two-course series designed to assist inactive practical nurses to update their knowledge and skills in order to renew their license. The student will be assigned to clinical practice under the supervision of an RN or LPN preceptor. Students are expected to complete this portion within 12 months of completing the theory.
Prerequisite: PN 240B

Portuguese

PORT 101B  Basics of Portuguese I  3 (3,0,0,0)
A course emphasizing spoken communication. Speaking, oral listening, reading and writing skills explored. A vocabulary of Portuguese-English words developed.

PORT 111  First Year Portuguese I  4 (4,0,0,0)
The development of language skills in listening, speaking, reading and writing. Emphasis is placed on communication in all four language skills.

PORT 112  First Year Portuguese II  4 (4,0,0,0)
A course emphasizing the further development of Portuguese language skills in listening, speaking, reading and writing. Emphasis is placed on more sophisticated communication in all four language acquisition skills. Portuguese speaking culture(s) are also emphasized.
Prerequisite: PORT 111.

PORT 211  Second Year Portuguese I  3 (3,0,0,0)
A continuation of PORT 111 and PORT 112. This course emphasizes the development of Portuguese language skills in listening, speaking, reading and writing. Emphasis is placed on communication in all four language acquisition skills.
Prerequisite: PORT 112.

PORT 212  Second Year Portuguese II  3 (3,0,0,0)
A continuation of PORT 111, PORT 112, and PORT 211. This course emphasizes the continuing development of Portuguese language skills in listening, speaking, reading and writing and Portuguese-speaking cultures.
Prerequisite: PORT 211.

Political Science

PSC 100  Nevada Constitution 1-3 (1-3,0,0,0)
This course represents a survey of Nevada politics and its constitution. It explores the structure of state government, the rights and liberties outlined in the state’s constitution, and basic culture and politics. This course satisfies the Nevada Constitution requirement and is designed for out-of-state transfer students that have satisfied the U.S. Constitution requirement but need to fulfill the Nevada Constitution requirement.
Prerequisite: Department Chair approval.

PSC 101  Introduction to American Politics 4 (4,0,0,0)
A survey of the United States, national, state and local governments with emphasis on the cultural aspects of the governing process. (Satisfies the legislative requirement for the United States and Nevada Constitutions.)
Prerequisite: ENG 100 or ENG 101 or ENG 107.
PSC 200  Survey of Political Theory  3 (3,0,0,0)
Survey of political theory from Plato to the present. Among the thinkers whose works will be explored are Aristotle, St. Thomas Aquinas, Machiavelli, Hobbes, Locke, Rousseau and Marx.

PSC 201  Politics of Minority Groups  3 (3,0,0,0)
An analysis of the effects of religious, cultural, racial and sexual identification on the American process.

PSC 205  Latino Politics and Society  3 (3,0,0,0)
This course will focus on the social, economic, and political evolution of the Latino community in the United States.

PSC 208  Survey of State and Local Government  3 (3,0,0,0)
Organization, working principles, functional processes of state and local governments in the United States. (Satisfies the legislative requirement of the Nevada Constitution.)

PSC 210  American Public Policy  3 (3,0,0,0)
Analysis of the interplay of forces involved in policy-making at all levels of American government. Assessment of the impact of policy on individuals and institutions.
Prerequisite: PSC 101.

PSC 211  Introduction to Comparative Politics  3 (3,0,0,0)
Analysis of similarities and differences in the governing processes of developed and developing societies.
Prerequisite: PSC 101.

PSC 222  Terrorism and Political Violence  3 (3,0,0,0)
This interdisciplinary course focuses on the motivation for terrorism and political violence. It addresses the question, “What makes an otherwise ordinary person deliberately attack unarmed civilians who have personally done the perpetrator no wrong and is in no position to redress the perpetrator’s grievances?” (Same as GLO 222).

PSC 231  Introduction to International Relations  3 (3,0,0,0)
An introduction to and explanation of modern and contemporary international relations, foreign policies and economic and social conditions in an interrelated world.

PSC 246  Politics of Developing Nations  3 (3,0,0,0)
A survey of the politics, ideologies, political structures, processes, and important issues and problems in developing nations, with specific examples drawn from selected countries and regions. Students will consider the arguable meanings of “development” and “globalization.”

PSC 247  Organized Crime and Political Corruption  3 (3,0,0,0)
Students will review relationships among organized crime groupings and local, state, and national governments with particular attention to twenty first century America and other selected nations.

PSC 251  Introduction to Campaign Management  3 (3,0,0,0)
Students will be exposed to a broad spectrum of subjects related to the management of political campaigns, with the intent of understanding various factors that must be considered and integrated into almost every political campaign.

PSC 252  Elements of Political Communication  3 (3,0,0,0)
Students will be introduced to the theoretical models and practical aspects of communications in the political world with an emphasis on strategies and tactics employed by campaign professionals.

PSC 253  Online Campaign Strategies  3 (3,0,0,0)
Introduction to internet-based campaign strategies with a focus on developing and managing a web-based campaign for election or other advocacy oriented activities.

PSC 257  Political Parties and Interest Groups  3 (3,0,0,0)
This course examines the history, purpose, organization, and strategies of the major and minor American political parties, and also examines the purpose of interest groups and their impact on the policy-making process.

PSC 259  Lobbying and Issue Advocacy  3 (3,0,0,0)
An examination of the profession and tactics of lobbying and issue advocacy including the processes, laws, and traditions surrounding the industry.

PSC 260  Grassroots Politics  3 (3,0,0,0)
This course examines the various aspects of grassroots politics in the context of political campaigns, the hurdles and barriers that exist, as well as nature of grassroots organizations and the various means to engage, activate, and focus them in the pursuit of specific goals or objectives.

PSC 261  Introduction to Survey Research and Demographics  3 (3,0,0,0)
An introduction to development, deployment, and interpretation of survey research and other statistical and analytical tools and methodologies in the current political environment.
PSC 295  Special Topics in Political Science  1-3 (1-3,0,0,0)  
Exploration of an issue of current interest. Topics may include: the formulation and implementation of National Security Policy, international organization and law, structure and function of U.S. intelligence agencies, or revolution and reaction in Latin America. May be repeated with Department Chair approval up to a total of six credits.

PSC 297  Capstone in Political Science  2 (2,0,0,0)  
This course provides a capstone experience in the field of political science, and provides preparation for both academic and non-academic careers in political science.  
Prerequisite: Department approval.

PSC 299  Government Internship  3 (0,0,0,9)  
Students receive practical experience in both the public and private sector through political internship opportunities, including campaigns and/or governmental agencies.

Psychology

PSY 101  General Psychology  3 (3,0,0,0)  
Introduction to the principles of psychology, including sensation, perception, cognition, learning, physiological psychology, personality, development, psychopathology, social psychology, methodology, assessment, and history of psychology.

PSY 101H  General Psychology – Honors  3 (3,0,0,0)  
An in-depth introduction to the principles of psychology including sensation, perception, cognition, learning, physiological psychology, personality, development, psychopathology, social psychology, methodology, assessment, and history through the use of an enhanced interactive instructional environment utilizing supplemental sources, reflective reasoning, and intensive dialogue. Courses with “H” suffixes are designated Honors-level courses and can be used to fulfill equivalent general education requirements.  
Prerequisite: Admission to the Honors program.

PSY 102  Psychology of Personal and Social Adjustment  3 (3,0,0,0)  
Study and analysis of effective psychological coping and adjustment strategies in both personal and diverse social contexts.

PSY 130  Human Sexuality  3 (3,0,0,0)  
Psychological study of major topics related to human sexuality from scientific, developmental, socio-cultural, and applied perspectives.

PSY 200  Introduction to the Psychology Major  1 (1,0,0,0)  
An introduction to psychology as a college major, including an overview of topics in psychology, careers in psychology, and preparation for additional study in psychology or closely-related disciplines.

PSY 201  Lifespan Development  3 (3,0,0,0)  
Overview of developmental psychology from a lifespan perspective including physical, mental, social, and emotional changes at all stages of life from conception to death.

PSY 203  Advanced General Psychology I  3 (3,0,0,0)  
Intensive study of selected major topics in the field of psychology.  
Prerequisite: PSY 101.

PSY 206  Business/Industrial Psychology  3 (3,0,0,0)  
Introduction to Business/Industrial/Organizational Psychology including individual, group, and organizational theory, research, and applications related to operations in businesses and other organizations.

PSY 207  Psychology and the Family  3 (3,0,0,0)  
Overview of the current theories and research findings regarding family structures including evolving familial relationships, familial dynamics, familial transitions, and effective therapeutic interventions.

PSY 208  Psychology of Human Relations  3 (3,0,0,0)  
Explores the relationships between human beings and assists in the development of interpersonal communication skills which can be used personally and professionally.

PSY 210  Introduction to Statistical Methods  4 (4,0,0,0)  
Study and practice with basic statistical methods especially useful in the presentation and interpretation of psychological, sociological and educational data, including an introduction to common computer based statistical programs. (Same as SOC 210.)  
Prerequisites: MATH 95 with a grade of C or better; and PSY 101 or PSY 101H.

PSY 224  Introduction to Latino Psychology  3 (3,0,0,0)  
Examination of psychological influences affecting Latino(a)s within the United States both currently and historically.

PSY 228  Psychology of Dreams  3 (3,0,0,0)  
Introduction to the study and analysis of dreams using psychological theory and interpretation.
### PSY 233 Child Psychology 3 (3,0,0,0)
An introduction to the psychological study of child growth and development from conception through adolescence including physical, cognitive, social/emotional and moral development and issues relevant to each major developmental stage.

### PSY 234 Psychology of Adolescence 3 (3,0,0,0)
An introduction to the psychological study of adolescent development including physical, cognitive, social/emotional, and moral development and issues relevant to adolescence.

### PSY 240 Introduction to Research Methods 3 (3,0,0,0)
Overview of the research process in the social sciences, including the fundamental characteristics of quantitative and qualitative research, experimental designs and the role of statistical and correctional techniques.

Prerequisite: PSY 101 or SOC 101. (Same as SOC 240.)

### PSY 241 Introduction to Abnormal Psychology 3 (3,0,0,0)
Overview of the perspectives, terminology and concepts used in identifying, diagnosing and treating abnormal behavior.

### PSY 261 Introduction to Social Psychology 3 (3,0,0,0)
Introduction to social and group factors affecting individual behavior, including communication, self and socialization, attitude formation and change. (Same as SOC 261.)

### PSY 270 Understanding Psychology Through Film 3 (3,0,0,0)
Analysis of psychological concepts as portrayed in popular film or video media related to individuals, families, relationships, abnormal behavior and human development.

### PSY 276 Aging in Modern American Society 3 (3,0,0,0)
Interdisciplinary survey of theory, research, and policy related to the psychological and sociological development and changes in the process of aging. (Same as SOC 276.)

### PSY 298 Capstone Course 1 (0,0,0,3)
Review and assessment of core concepts and learning outcomes of the psychology degree program. Designed as culminating course in completion of psychology degree requirements and preparation for further academic study.

Prerequisite: PSY 101 or PSY 101H; and PSY 200 and PSY 210 and PSY 240.

### PSY 299 Special Topics 3 (3,0,0,0)
Concentrated study, research and analysis of selected topic(s) in psychology.

### Physical Therapy

#### PT 100 Introduction to Physical Therapy 3 (3,0,0,0)
Introduction to the practice and profession of physical therapy including history, philosophy, role and scope, licensure and ethics. Other topics include documentation, medical terminology and information about other allied health careers.

#### PT 101B Pilates for Fitness – Level I 2 (1,3,0,0)
Course covers the foundation principles, theory of and instruction in Pilates method exercises using Pilates equipment. This class is designed for all fitness levels. Open enrollment.

Prerequisite: PT 101B or Instructor approval.

#### PT 102B Pilates for Fitness – Level II 2 (1,3,0,0)
Course provides more in-depth instruction in theory and practice of Pilates method exercises. Emphasis will be on advanced exercises and a full-body workout using Pilates equipment.

#### PT 104B Dissection Techniques 1-3 (0,2-6,0,0)
Students are introduced to the techniques used in the dissection of tissues for use as prosection materials in physical therapist assistant courses. Enrollment by Instructor approval.

#### PT 105 Musculoskeletal Anatomy Review 1 (0,3,0,0)
Students review selected topics in human anatomy including the musculoskeletal, neurological, cardiovascular and respiratory systems. Restricted to admitted PTA program students.

#### PT 110 Principles of Kinesiology 2 (2,0,0,0)
Students are introduced to basic kinesiological principles of normal movement and their importance in understanding and implementing treatment programs. Restricted to admitted PTA program students.

#### PT 111 Problems in Kinesiology 2 (0,6,0,0)
Students develop competencies in identifying anatomical landmarks and symmetry, muscle length relationships and contraction types, joint mechanics and function, neurological control and effects and gait cycle. Restricted to admitted PTA program students.

#### PT 117 Fundamental Principles for the Physical Therapist Assistant 2 (2,0,0,0)
This course reviews the fundamental principles required for appropriate patient treatment and care. Topics include gait training, mobility and transfer training, wheelchair adjustment, architectural barriers, documentation and patient education. Restricted to admitted PTA program students.
PT 118  **Fundamental Procedures for the Physical Therapist Assistant**  2 (0,6,0,0)
Students develop competence in fundamental skills including ADLs, transfers, mobility, gait training, architectural barriers, documentation and patient education. Patient age is considered. Restricted to admitted PTA program students.

PT 120  **Observation and Measurement Principles for the Physical Therapist Assistant**  2 (2,0,0,0)
Introduction to the principles for monitoring patient progress and safety and making recommendations for treatment modifications.
Prerequisites: PT 105 and PT 110 and PT 111 and PT 117 and PT 118.

PT 121  **Observation and Measurement Procedures**  2 (0,6,0,0)
Students develop competencies in observation and measurement techniques including goniometry, manual muscle testing, volumetric measurements, righting and equilibrium reactions and posture, gait and sensory assessments.
Prerequisites: PT 105 and PT 110 and PT 111 and PT 117 and PT 118.

PT 122  **Psychological-Social Considerations in Patient Care**  3 (3,0,0,0)
Introduction to considerations which affect patient rehabilitation. Cultural diversity, work relationships, human relations, geriatric considerations, responses to illness, grieving, death and dying are discussed.
Prerequisites: PT 105 and PT 110 and PT 111 and PT 117 and PT 118.

PT 125  **Principles of Physical Agents**  2 (2,0,0,0)
Introduction to the theory underlying the effects of appropriate application of therapeutic physical agents.
Prerequisites: PT 105 and PT 110 and PT 111 and PT 117 and PT 118.

PT 126  **Physical Agent Procedures and Practices**  2 (0,6,0,0)
Students develop competence in the correct application of therapeutic heat and cold, electrotherapy, intermittent compression, massage, short wave diathermy, traction and ultrasound.
Prerequisites: PT 105 and PT 110 and PT 111 and PT 117 and PT 118.

PT 130  **Administration in Physical Therapy**  2 (2,0,0,0)
Introduction of students to administrative topics important for successful management including levels of authority, management techniques, personality profiles, performance evaluations, fiscal considerations and quality assurance.
Prerequisites: PT 105 and PT 110 and PT 111 and PT 117 and PT 118.

PT 134  **Clinical Affiliation I**  2 (1,0,5,0)
An integrated clinical experience which provides students the opportunity for observation and/or hands-on care in a variety of health settings, under the supervision of a licensed physical therapist, as applicable. The emphasis of this affiliation is applying learned fundamental skills to clinical performance expectations. A focus of this course is solid preparation for future full-time clinical affiliations.
Prerequisites: PT 105 and PT 110 and PT 111 and PT 117 and PT 118.

PT 225  **Therapeutic Principles for Musculoskeletal Pathologies**  3 (3,0,0,0)
Introduction to basic therapeutic principles underlying the treatment of patients with musculoskeletal pathologies. General exercise programs along with specific treatment protocols, and their indications and contraindications will be presented.
Prerequisites: PT 120 and PT 121 and PT 122 and PT 125 and PT 126 and PT 130 and PT 134.

PT 226  **Therapeutic Procedures for Musculoskeletal Pathologies**  2 (0,6,0,0)
Students are introduced to and develop competence in the application of therapeutic exercise and other procedures used when treating musculoskeletal pathologies.
Prerequisites: PT 120 and PT 121 and PT 122 and PT 125 and PT 126 and PT 130 and PT 134.

PT 238  **Pathophysiology I**  3 (3,0,0,0)
Review of the inflammatory and healing processes of tissue trauma or disease and the disease process associated with specific musculoskeletal pathologies.
Prerequisites: PT 120 and PT 121 and PT 122 and PT 125 and PT 126 and PT 130 and PT 134.

PT 240  **Orthotic and Prosthetic Considerations in Patient Care**  1 (1,0,0,0)
Students are introduced to the various types of orthotic and prosthetic devices and their use in patient care.
Prerequisites: PT 120 and PT 121 and PT 122 and PT 125 and PT 126 and PT 130 and PT 134.
PT 244 Clinical Affiliation II 2 (0,0,21,0)
This eight-week, full-time (40 hours/week) clinical affiliation is designed to expand the student’s knowledge and competencies in treating musculoskeletal pathologies. The emphasis of this affiliation is providing direct, hands-on patient care, under the supervision of a physical therapist, acquiring entry-level competencies in musculoskeletal skills learned in the semester as well as continued development of fundamental competencies acquired in previous semesters.
Prerequisites: PT 120 and PT 121 and PT 122 and PT 125 and PT 126 and PT 130 and PT 134.

PT 248 Pathophysiology II 3 (3,0,0,0)
Introduction of students to specific neuromuscular pathologies most commonly treated in the physical therapy clinic.
Prerequisites: PT 225 and PT 226 and PT 238 and PT 240 and PT 244 and PT 250 and PT 251.

PT 250 Therapeutic Principles for Cardiopulmonary Pathologies 2 (2,0,0,0)
Introduction to the therapeutic principles underlying the treatment of patients with cardiopulmonary pathologies.
Prerequisites: PT 120 and PT 121 and PT 122 and PT 125 and PT 126 and PT 130 and PT 134.

PT 251 Therapeutic Procedures for Cardiopulmonary Pathologies 1 (0,2,0,0)
Students develop competencies in the application of specific treatment protocols used with cardiopulmonary pathologies.
Prerequisites: PT 120 and PT 121 and PT 122 and PT 125 and PT 126 and PT 130 and PT 134.

PT 254 Therapeutic Principles for Neuromuscular Pathologies 3 (3,0,0,0)
Introduction to the therapeutic principles used in the treatment of patients with neuromuscular pathologies.
Prerequisites: PT 225 and PT 226 and PT 238 and PT 240 and PT 244 and PT 250 and PT 251.

PT 255 Therapeutic Procedures for Neuromuscular Pathologies 2 (0,6,0,0)
Students are introduced to and develop competencies in the application of specific treatment procedures used with neurologically involved children and adults.
Prerequisites: PT 225 and PT 226 and PT 238 and PT 240 and PT 244 and PT 250 and PT 251.

PT 256 Clinical Affiliation III 2 (0,0,21,0)
This eight-week, full-time (40 hours/week) clinical affiliation is designed to expand the student’s knowledge and competencies in treating neuromuscular pathologies. The emphasis of this affiliation is providing direct, hands-on patient care, under the supervision of a physical therapist, acquiring entry-level competencies in neuromuscular skills learned in the semester as well as continued development of musculoskeletal and fundamental competencies acquired in previous semesters.
Prerequisites: PT 225 and PT 226 and PT 238 and PT 240 and PT 244 and PT 250 and PT 251.

PT 298B Special Topics in Physical Therapy 1 (1,0,0,0)
Students will be introduced to selected topics in rehabilitation medicine that are not covered in the core physical therapist assistant program curriculum.

Radiation Therapy Technology

RDTP 101B Introduction to Radiation Therapy 2 (1,3,0,0)
This course is designed to provide the student with an overview of the foundations in radiation therapy and the practitioner’s role in the health care delivery system. Principles, practices, and policies of the educational program, health care organizations, and principles of radiation and health safety and professional responsibilities of the radiation therapist will be discussed and examined. Students will also be provided foundation concepts and competencies in assessment and evaluation of the patient for service delivery. Psychological and physical needs and factors affecting treatment outcome will be presented and examined. Routine and emergency care procedures will also be presented.

RDTP 102B Methodologies I 2 (2,0,0,0)
This course is designed to provide the students an introduction to cancer treatment and management. Before entering full-time clinical rotations, the students will become familiar with a wide range of treatment procedures, common prescription doses for various cancer types, and educating patients on treatment side effects.

RDTP 103B Introduction to Oncology 1 (1,0,0,0)
This course will introduce the student to the disease process. The student will learn about the types of growths, causative factors, and biological behavior of cancer. Students will examine palliative care for the cancer patient. Basic medical terminology will be introduced.

RDTP 105B Principles and Practice of Radiation Therapy 2 (2,0,0,0)
Concepts and competencies in assessment and evaluation of the patient for health service delivery with emphasis placed on radiation therapy. The student will examine the psychological and physical needs and factors affecting treatment outcome, routine and emergency care procedures, and the use of medical oncology. Students will learn the physical diagnosis process and how to examine the cancer patient for clinical assessment and quality of care.
RDTP 115B  Caring for the Patient at the End of Life  1 (1,0,0,0)
This course outlines the wide range of clinical experiences used to care for patients at the end of life. The course discusses practical guidance for clinicians, patients, and families about critical communication issues such as delivering bad news, discussing palliative care, making decisions for incapacitated patients, and exploring the wish to die.

RDTP 125B  Radiographic Process  2 (2,0,0,0)
This course provides the student with instruction on the principles of radiation production, interactions with matter detection, and protection. Students will also explore radiographic imaging, radiation therapy, and treatment planning.

RDTP 150B  Introduction to Radiation Physics  2 (2,0,0,0)
This course will establish a working knowledge of the mathematics and physics needed to understand and compute formulas related to the use of radiation in a clinical treatment setting.

RDTP 180B  Radiobiology  3 (3,0,0,0)
Content is designed to present basic concepts and principles of radiation biology. The interactions of radiation with cells, tissues and the body as a whole and resultant biophysical event will be presented. Discussion of the theories and principles of tolerance doses, time-dose relationships, treatment fractionation schemes and the relationship of the clinical practice of radiation therapy will be discussed, examined, and evaluated.

RDTP 202B  Radiotherapy Physics  3 (3,0,0,0)
This course is a continuation of RDTP 150 and will provide the student with a more advanced insight into the principles of physics as they relate to radiation therapy. Included are; measurements, dosage, absorption, isodose curves, radiation safety and protection, room design and calibration of equipment, Brachytherapy as well as disposal of radioactive waste.

RDTP 210B  Treatment Planning I  3 (3,0,0,0)
Content is designed to establish factors that influence and govern clinical planning of patient treatment. The student will learn isodose descriptions, patient contouring, basic dosimetric calculations (single field and parallel opposed fields, PDD, TAR, TMR), and clinical applications of treatment beams. Class demonstrations / laboratories and projects are incorporated to complement specific content areas and are focused on clinical applications.

RDTP 211B  Radiographic Analysis  2 (2,0,0,0)
This course is designed to provide the students with an understanding of the diagnostic imaging process as well as the radiation treatment delivery process. This course will also introduce students to the basic concepts of computed tomography, sectional anatomy, and how these relate to patient positioning and treatment.

RDTP 212B  Cross Sectional, Topographic and Radiological Anatomy  2 (2,0,0,0)
This course discusses anatomy specifically from an imaging perspective. Students will learn to identify structures and pathology on CT and MRI scans as well as locating landmarks on diagnostic and simulator films. Basic anatomical relationships will be compared using topographical and cross-sectional images.

RDTP 213B  Radiation Oncology  3 (3,0,0,0)
This course provides the student with an understanding of the clinical signs, symptoms, epidemiology, routes of spread, pathology, staging system, and management approaches of the major tumor sites in the body. Topics covered include diagnostic and staging work-up, prognostic factors, decision-making skills for treatment options and treatment results.

RDTP 214B  Methodologies II  2 (1,3,0,0)
This course deals with relational and cross-sectional anatomy of the head, thorax, abdomen, pelvis, and representative sections of the extremities. In the laboratory component, students will simulate radiation treatment fields of cross-sectional anatomy using C.T., MRI, SPECT, ultrasound, and PET images. This course is designed to move students from a two- to a three-dimensional view of internal and relational anatomy.

RDTP 215B  Treatment Planning II  3 (3,0,0,0)
This course is a continuation of Treatment Planning I. Students will be responsible for accurate three-dimensional treatment plans for lung, brain, abdomen, pelvis and extremity cancers. Planning will include wedges, blocks, beam weighting, off axis, boost fields and special techniques.

RDTP 216B  Methodologies III  2 (1,3,0,0)
A continuation of Radiation Oncology I. This course will continue to discuss the management of specific neoplastic disease including epidemiology, etiology, detection, diagnosis, patient condition, treatment, and prognosis of neoplastic disease in relationship to histology, anatomical site, and patterns of spread; the radiation therapists’ responsibility in the management of neoplastic disease.

RDTP 219B  Advanced Radiation Therapy Techniques  2 (2,0,0,0)
Continuation of RDTP 214B to provide the student with the advanced concepts of dosimetry, treatment planning, and patient simulation. Various external beam techniques and applications, depth dose data, and summation of isodose curves will be applied to simulation procedures. Modalities of treatment, immobilization, patient set-up, dose measurement and verification are discussed and practiced.
RDTP 220B  Treatment Planning Lab  1 (0,3,0,0)
Content is designed to establish factors that influence and govern clinical planning of patient treatment. The student will learn isodose descriptions, practice patient contouring, radiobiological considerations, dosimetric calculations, compensation and clinical applications of treatment beams. Optimal treatment planning is emphasized along with particle beams. Stereotactic and emerging technologies are also discussed. Class demonstrations / laboratories and projects are incorporated to complement specific content areas and are focused on clinical applications. Students will complete a minimum of fifteen (15) laboratory assignments computing basic single field, parallel opposed fields, and computer generated treatment plans.

RDTP 221B  Ethics/Law/Professionalism  2 (2,0,0,0)
This course establishes a basic foundation of professional practice for the radiation therapist as a part of the radiation therapy team. It discusses ethical behavior for caregivers as well as legal ramifications, malpractice issues, and ARRT ethics. The course content is designed to develop problem solving and critical thinking skills, especially as they relate to clinical ethics.

RDTP 229B  Radiation Therapy Board Review  1 (1,0,0,0)
This course offers a comprehensive review of all courses in the Radiation Therapy program to prepare the student to sit the ARRT-National Registry examination. Four complete Board exams will be administered to mimic the actual exam and students will be able to dissect their errors and correct them through lecture and reading assignments.

RDTP 230B  Clinical Applications I  1 (0,3,0,0)
Patient treatment competencies are discussed and practiced on a simulation machine. Students are introduced to isocenter, depth of treatment, patient localization marks, immobilization devices, patient alignment using lasers.

RDTP 231B  Clinical Applications II  1 (0,3,0,0)
Continuation of Clinical Applications I. Students will be assigned four (4) intermediate treatment competencies to be completed under the direct supervision of CSN faculty.

RDTP 232B  Clinical Practicum III  3 (0,0,21,0)
Continuation of Clinical Applications II where the student will take the competencies learned in the lab and apply them to actual patients in the clinic. The student responsibilities increase as more complicated competencies are introduced in patient treatments set-ups.

RDTP 233B  Clinical Practicum IV  1 (0,3,0,0)
Advanced Clinical Practicum stressing practical application of dosimetry competencies under the direct supervision of a medical physicist or dosimetrist. Continuation of advanced patient treatment competencies under the supervision of a Registered Radiation Therapist.

RDTP 234B  Clinical Practicum V  4 (0,0,17,0)
The most advanced clinical practicum as evidenced by the level of competency of the student upon completion of RDTP 233B. Successful completion of this course will ensure that the student is competent upon graduation to assume all of the responsibilities required of a Registered Radiation Therapy Technologist.

Real Estate

RE 101  Real Estate Principles  3 (3,0,0,0)
A course that covers most subjects required for successful passing of the state real estate exam. Satisfies requirements of the Nevada State Real Estate Commission Salesman’s exam.

RE 102B  Real Estate Math  3 (3,0,0,0)
A general mathematics course designed to assist the student who wishes to pass the state exam as well as the student who wants to be more proficient and knowledgeable in the real estate profession.

RE 103  Real Estate Law and Practice  3 (3,0,0,0)
A law course specifically designed for the field of real estate including agency, contracts, deeds, instruments, easements, estates in land, zoning, restrictions, tenancy, liens, foreclosures, transfers of title, leases and court decisions. One of two courses required by the Nevada Real Estate Commission to take the Salesperson’s License exam.

RE 199  Real Estate Investments  3 (3,0,0,0)
Introduction to the mechanics of the real estate business, state, and federal regulations, management, financial statements, formulas, techniques, protection and investment guidelines for the consumer as they relate to the real estate business.

RE 201B  Real Estate Brokerage  3 (3,0,0,0)
Study of the factors necessary for the establishment and efficient operation of brokerage offices. Ethics, listing, office location, physical layout, budgeting, records and procedures. One of several courses required by the Nevada Real Estate Commission to take the Broker’s exam.

RE 202  Real Estate Financing and Insurance  3 (3,0,0,0)
A study of the procedures and techniques requisite to the analysis of financial real property. The types of financing include conventional, Federal Housing Administration, Veterans’ Administration, credit evaluations, interest rates, loan costs and the availability of mortgage money and its competition in the money market. Types of insurance specifically applicable to the real estate industry covered.

RE 203B  Tax Aspects of Real Property Transactions  3 (3,0,0,0)
Course covers basic tax law principles governing forms and methods of acquisition of real property. Emphasis is on planning techniques to structure real property transactions to minimize tax liability.
RE 205B  Real Property Management  3 (3,0,0,0)
Designed to cover the fundamental principles involved in the management of real property. Topics to be covered include the role of an effective managing agent, accounting systems and financial controls, human relations in property management, leases, developing management checklist and developing effective service techniques.

RE 206  Real Estate Appraising  3 (3,0,0,0)
Course covers basic principles and economic trends, nature of appraisal process, neighborhood and site analysis, site evaluation, residential style and functional utility. Use of cost, income capitalization and market approaches to value and the correlation of the data to arrive at a value estimate. Recommended for those holding a real estate license.

RE 295B  Work Experience I  3 (0,0,0,15)
Cooperative Education course designed to provide the student with on-the-job supervised and educationally directed work experience with the Real Estate Program. Student must work a minimum average of 15 hours per week for a total of 225 hours to earn practicum work experience credit.

Reading Skills

READ 092  Spelling Skills I  3 (3,0,0,0)
Develops essential spelling skills. Emphasis is on learning, practice and retention of basic spelling rules.

READ 094  Spelling Skills II  2 (2,0,0,0)
This class offers a variety of approaches to help students master the spelling of troublesome words. Some of the approaches include: learning principles, pairing, mnemonic devices, rhyme, definition, repetition, pronunciation.
Prerequisite: READ 92 with a grade of C or higher.

READ 095  Reading and Improvement  3 (3,0,0,0)
This class will improve fundamental reading skills, including word-attack skills, vocabulary development, reading comprehension, fluency, and interpretation. Extensive opportunities for applying reading strategies for before, during, and after reading will be provided. Critical analysis skills in relationship to various texts will be introduced to guide students toward college level reading.
Prerequisite: Accuplacer Reading Placement Test.

READ 096  Vocabulary Skills I  3 (3,0,0,0)
Designed to broaden the student’s range of English vocabulary. Emphasis is placed on word recognition, misused words, basic Latin and Greek roots.

READ 097  Vocabulary Skills II  3 (3,0,0,0)
Strategies for the mastery of vocabulary words useful for the academic and employment world.
Prerequisite: READ 096 with a grade of C or higher.

READ 099  Active Reading Strategies  1 (1,0,0,0)
This course will equip students with active reading skills and vocabulary learning strategies that will improve their success in other courses. Designed to be taken with another class that relies heavily on difficult reading.

READ 130  Reading in the Disciplines  3 (3,0,0,0)
Students will learn the unique skills, including vocabulary, comprehension, and fluency, required to read textbooks and related materials in different subject areas. Students will learn how to adapt and apply academic reading and learning strategies to suit the distinct characteristics of college-level texts in academic disciplines.
Prerequisite: Accuplacer Reading Score or READ 095 with a grade of C or better.

READ 135  College Reading Strategies  3 (3,0,0,0)
Improvement of reading comprehension, critical thinking skills, vocabulary, reading rate, and study-reading techniques through reading and analyzing a variety of texts, including college level texts and textbook selections from various areas. Note: May be taken in lieu of the reading portion of the PPST exam by a license holder who has failed the PPST reading portion at least once when a grade of B is obtained at the conclusion of the course. This option is not available to students in teacher education courses.
Prerequisite: Accuplacer Reading Placement test score or C or better in READ 095 or License holder who has failed the PPST reading portion at least once.

Religious Studies

RST 101  Introduction to Religious Studies  3 (3,0,0,0)

RST 136  Introduction to Women and Religion  3 (3,0,0,0)
This course studies women as subjects of religion and provides an opportunity for students to examine religion in the context of the gender-specific experiences of women. The course includes the roles of women in a variety of religious groups as well as a study of the myths and symbols relating to women’s roles in these religious groups.

RST 150  Abrahamic Religions: Judaism, Christianity, Islam  3 (3,0,0,0)
This course focuses on the major historical developments, structural cosmology, symbolic interpretation, and values of the Abrahamic religions: Judaism, Christianity, Islam.
**RST 170 Introduction to Modern Western Paganism** 3 (3,0,0,0)
This course introduces Modern Western Paganism. Included are history, sources, traditions, cosmology, practices, rituals, ritual calendars, and rites of passage.

**RST 260 Mesoamerican Religions: Jaguars, Serpents, Trees** 3 (3,0,0,0)
Introduction to the religions of Mesoamerica using cultural methods such as art and architecture coupled with written sources to explore their unique cosmology.

**RST 270 Modern Western Pagan Thought** 3 (3,0,0,0)
Exploration of beliefs, values, and ethics of the modern western Pagan community. Includes concepts of deity, nature, magic, ethics, existence, suffering, evil, death, and ecstasy.

**RST 295 Topical Issues in Religious Studies** 1-3 (1-3,0,0,0)
The topic will vary; however the intent is to develop awareness of and appreciation for certain religious or spiritual paths and/or issues. May be repeated up to six credits.

**Russian**

**RUS 111 First Year Russian I** 4 (4,0,0,0)
The development of language skills in listening, speaking, reading and writing; structural analysis. Emphasis is placed on speaking.

**RUS 112 First Year Russian II** 4 (4,0,0,0)
The development of language skills in listening, speaking, reading and writing; structural analysis. Emphasis is placed on speaking.
Prerequisite: RUS 111 or equivalent.

**RUS 211 Second Year Russian I** 3 (3,0,0,0)
Further development of Russian speaking, listening, reading, writing skills and Russian cultural awareness.
Prerequisite: RUS 112 or Department approval.

**RUS 212 Second Year Russian II** 3 (3,0,0,0)
Further advancement of Russian speaking, listening, reading, writing skills and Russian cultural awareness.
Prerequisite: RUS 211 or Department approval.

**Sustainable Construction**

**SCT 101B Sustainable Construction Materials and Methods** 3 (3,0,0,0)
This course will cover building materials used for the interior and exterior environment of sustainable and non-sustainable construction. Proper methods of installation will be discussed.

**SCT 201B Sustainable Construction of New Buildings** 3 (3,0,0,0)
This course will compare the differences between sustainable construction and the traditional method of construction including environmental and social demands and economic strategies during construction and after the construction is completed.
Prerequisites: SCT 101B and SCT 105B.

**SCT 202B Sustainable Construction of Existing Buildings** 3 (3,0,0,0)
This course will cover retrofitting of commercial and residential construction for energy efficiency and sustainable operations of existing buildings.
Prerequisite: SCT 101B and SCT 105B.

**Sociology**

**SOC 101 Principles of Sociology** 3 (3,0,0,0)
An overview of the sociological principles that shape the development, structure and function of societies, cultures, human interactions, groups, self-image, and social change.

**SOC 101H Principles of Sociology – Honors** 3 (3,0,0,0)
An Honors-level study of sociological principles that shape the development, structure and function of societies, cultures, human interactions, groups, self-image, and social change. Honors emphasizes interactive learning, entailing an examination of the self and one’s social and cultural world through the use of reflective reasoning and dialogue. Courses with “H” suffixes are designated Honors-level courses and can be used to fulfill equivalent general education requirements.
Prerequisite: Admission to the Honors program.

**SOC 102 Contemporary Social Issues** 3 (3,0,0,0)
An examination of selected social issues and problems, their causes and proposed solutions.

**SOC 205 Ethnic Groups in Contemporary Societies** 3 (3,0,0,0)
A survey of racial and ethnic intergroup relations in the United States and other societies. Emphasis is on cultural, social, and institutional factors that lead to group conflict and/or cultural pluralism.
Prerequisite: ANTH 101 or SOC 101. (Same as ANTH 205.)
SOC 207  Introduction to Sociological Theory  3 \( (3,0,0,0) \)
Examination of the works of classical and contemporary social theorists of the nineteenth and twentieth centuries.

SOC 210  Introduction to Statistical Methods  4 \( (4,0,0,0) \)
Study and practice with basic statistical methods especially useful in the presentation and interpretation of psychological, sociological and educational data, an introduction to common computer based statistical programs. (Same as PSY 210.) MATH 95 with a grade of C or better; and SOC 101 or SOC 101H.

SOC 222  Terrorism and Political Violence  4 \( (4,0,0,0) \)
This interdisciplinary course focuses on the motivation for terrorism and political violence. It addresses the question, “What makes an otherwise ordinary person deliberately attack unarmed civilians who have personally done the perpetrator no wrong and is in no position to redress the perpetrator’s grievances?” The course approaches the issue from four different academic perspectives: history, psychology, sociology, and political science. (Same as PSC 222 and HIST 222.)

SOC 225  Media and Society  3 \( (3,0,0,0) \)
An investigation of the role of the Mass Media and its effects on contemporary society.

SOC 240  Social Science Research Methods  3 \( (3,0,0,0) \)
Overview of the research process in the social sciences including the fundamental characteristics of quantitative and qualitative research, experimental designs, and the role of statistical and correlational techniques.

Prerequisite: PSY 101 or SOC 101. (Same as PSY 240.)

SOC 241  Introduction to Research Methods  3 \( (3,0,0,0) \)
This course provides a broad survey of research methods and the tools needed to critically assess sociological research.

SOC 261  Introduction to Social Psychology  3 \( (3,0,0,0) \)
Introduction to social and group factors affecting individual behavior including communication, self and socialization, attitude formation and change. (Same as PSY 261.)

SOC 270  Introduction to Deviant Behavior  3 \( (3,0,0,0) \)
A survey of the contrasting sociological perspectives in the field of deviant behavior as applied to a variety of socially stigmatized behaviors.

SOC 275  Introduction to Marriage and Family  3 \( (3,0,0,0) \)
Survey of issues in the sociology of the family including the intersection of race/ethnicity, class, and gender. (Same as WMST 275.)

SOC 276  Aging in Modern American Society  3 \( (3,0,0,0) \)
Interdisciplinary survey of theory, research, and policy related to the psychological and sociological development and changes in the process of aging in society. (Same as PSY 276.)

SOC 281  Computer Applications for the Social Sciences  4 \( (2,4,0,0) \)
This course equips students with computer skills needed to compete effectively for new employment opportunities in service organizations and evaluation research (i.e., applications, analysis, data management).

Prerequisite: IS 101.

SOC 289  Applied Skills in Sociology  3 \( (3,0,0,0) \)
Required for sociology majors, this course blends research, theory and method with supervised practical experience in applied sociology. All students complete a program assessment.

Prerequisite: Instructor approval.

SOC 291  Field Experience in Sociology  1 \( (0.5,0,0,4) \)
Program includes formal classroom instruction (substantive and applied components), computer-related tasks, and on-site job training, blending theory with practice. Communication and social interactive skills are developed and practiced. Course may be repeated one time for a total of two credits.

SOC 295  Sociology of the Future  3 \( (3,0,0,0) \)
Providing a sociological perspective on the emerging trends and issues that affect the current outlook for our society, including an introduction to various models for forecasting future trends and how to critically evaluate forecasts.

SOC 298  Selected Topics in Sociology  3 \( (3,0,0,0) \)
Variable content required to respond to specific topic areas in sociology, relationships between sociology and the community, special student interests and needs and faculty expertise.

SOC 299  Capstone Course in Sociology  1 \( (0,0,0,1) \)
This course provides a capstone experience in the field of sociology. It integrates coursework covered in the Sociology AA degree program and provides preparation for both academic and non-academic careers in sociology.

Prerequisite: Instructor approval.
## Sonography

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SON 101B</td>
<td>Basic Sonography</td>
<td>3</td>
<td>Presents an introduction to sonography, with an emphasis on the role of the sonographer, basic anatomy, physiology, physics, and imaging parameters.</td>
</tr>
<tr>
<td>SON 101L</td>
<td>Basic Sonography Laboratory</td>
<td>1</td>
<td>Focuses on the development of skills needed to begin clinical courses.</td>
</tr>
<tr>
<td>SON 102B</td>
<td>Basic Cardiac Sonography</td>
<td>3</td>
<td>Presents an introduction to cardiac sonography, with an emphasis on the role of the sonographer, basic anatomy, physiology, physics, and imaging parameters. Corequisite: SON 102L.</td>
</tr>
<tr>
<td>SON 102L</td>
<td>Basic Cardiac Sonography Laboratory</td>
<td>1</td>
<td>Focuses on the development of skills needed to begin clinical courses.</td>
</tr>
<tr>
<td>SON 116B</td>
<td>Echocardiography I</td>
<td>3</td>
<td>Focuses on valvular heart disease, ischemic cardiac disease, cardiomyopathy, pericardial disease, congenital heart disease, and cardiac neoplasms and masses.</td>
</tr>
<tr>
<td>SON 125B</td>
<td>Sonographic Physics and Instrumentation I</td>
<td>3</td>
<td>Focuses on basic sonographic principles, with an emphasis on instrumentation.</td>
</tr>
<tr>
<td>SON 135B</td>
<td>Cardiovascular Ultrasound Physics</td>
<td>2</td>
<td>This course presents students with advanced cardiovascular principles with an emphasis on cardiac anatomy, physiology, evaluation methods, and hemodynamics. The information presented will serve as a resource for the ARDMS exam on cardiovascular principles and instrumentation.</td>
</tr>
<tr>
<td>SON 150B</td>
<td>Patient Care for Imaging Professions</td>
<td>3</td>
<td>Focuses on patient care procedures, patient transport and handling, infection control, surgical asepsis, interview and examination techniques, vital signs and emergency procedures, and chart and referral evaluations.</td>
</tr>
<tr>
<td>SON 160B</td>
<td>Sonographic Scanning Lab I</td>
<td>2</td>
<td>Ultrasound procedures performed in supervised lab on campus.</td>
</tr>
<tr>
<td>SON 190B</td>
<td>Sonographic Physics and Instrumentation II</td>
<td>3</td>
<td>Continuation of Sonographic Physics I with emphasis on Doppler physics, including color Doppler, hemodynamics, bio effects, quality assurance/control, and sonographic artifacts. Prerequisite: SON 125B.</td>
</tr>
<tr>
<td>SON 195B</td>
<td>Sonographic Scanning Lab II</td>
<td>2</td>
<td>Ultrasound procedures performed in a supervised lab on campus.</td>
</tr>
<tr>
<td>SON 210B</td>
<td>Abdominal Sonography I</td>
<td>3</td>
<td>Focuses on the anatomy, physiology, and pathology of the abdominal organs that can be visualized with ultrasound. Corequisite: SON 210L.</td>
</tr>
<tr>
<td>SON 216B</td>
<td>Echocardiography II</td>
<td>3</td>
<td>Continuation of SON 116B with emphasis on cardiac trauma, pulmonary vascular disease, diseases of the aorta and great vessels, transesophageal echocardiography, contrast echocardiography, and intraoperative echocardiography. Prerequisite: SON 210B.</td>
</tr>
<tr>
<td>SON 220B</td>
<td>Abdominal Sonography II</td>
<td>3</td>
<td>Focuses on the anatomy, physiology, and pathology of the urinary system, thyroid, breast, scrotum, prostate, and neonatal neurosonography.</td>
</tr>
<tr>
<td>SON 225B</td>
<td>Stress Echocardiography</td>
<td>3</td>
<td>Focuses on the indications, utility, limitations, and technical procedures related to stress echocardiography including cardiovascular pharmacology, theory and use of provocative stress agents and non-pharmacologic stress.</td>
</tr>
<tr>
<td>SON 235B</td>
<td>Gynecologic Sonography</td>
<td>3</td>
<td>Focuses on the anatomy, physiology, and pathology of the female pelvis and reproductive system and sonographic appearance.</td>
</tr>
<tr>
<td>SON 245B</td>
<td>Obstetrical Sonography</td>
<td>3</td>
<td>Focuses on the anatomy, physiology, and pathology of pregnancy with emphasis on first trimester pregnancy and complications of first trimester obstetrics. Normal sonographic obstetrical measurements and sonographic appearance of first, second, and third trimester pregnancy will also be covered.</td>
</tr>
<tr>
<td>SON 250B</td>
<td>Seminar and Case Review I</td>
<td>2</td>
<td>Through the presentation of select cases by students, faculty, and radiologists, the multi-facets of diagnostic medical sonography are reviewed and future trends discussed.</td>
</tr>
<tr>
<td>SON 255B</td>
<td>Seminar and Case Review II</td>
<td>2</td>
<td>Through the presentation of select cases by students, faculty, and radiologists, the multi-facets of diagnostic medical sonography are reviewed and future trends discussed.</td>
</tr>
</tbody>
</table>
SON 260B Obstetrical Sonography II 3 (3,0,0,0)
Continuation of Obstetrical Sonography I with emphasis on abnormal second and third trimester pregnancy, fetal anomalies, multiple gestation, maternal disease, amniotic fluid, placenta and invasive procedures during pregnancy.

SON 261B Pediatric Echocardiography I 3 (3,0,0,0)
Focuses on fetal, neonatal and pediatric echocardiography including embryology and normal fetal and neonatal cardiac anatomy. Pediatric cardiac pathology, pathophysiology and hemodynamics in various disease processes will be discussed.

SON 262B Pediatric Echocardiography II 2 (2,0,0,0)
Continuation of Pediatric Echocardiography I with special emphasis on contrast agents, specialized pediatric patient care, pediatric transesophageal echocardiography and surgical procedures utilized for pediatric cardiac anomalies.

SON 270B Small Parts/Pediatric Sonography 2 (2,0,0,0)
Focuses on the anatomy, physiology and pathology of the thyroid, breast, scrotum, prostate, and neonatal brain. Pediatric spine, abdomen, kidneys, hips, and gastrointestinal system as imaged on ultrasound will be discussed.

SON 275B Vascular Sonography I 3 (3,0,0,0)
Focuses on duplex and color Doppler imaging of the extracranial cerebral and peripheral vessels of the vascular system as well as the physiology and sonographic appearance of normal anatomy and pathology.
Corequisite: SON 275L.

SON 275L Vascular Sonography Laboratory I 1 (0,4,0,0)
Focuses on the use of “Direct Testing” methods in the performance of vascular ultrasound procedures in a supervised lab on campus.

SON 276B Vascular Sonography II 3 (3,0,0,0)
Continuation of SON 275B (Vascular Sonography I), with an emphasis on the use of “Indirect Testing” ultrasound evaluation of the vascular system in the upper and lower extremities; and transcranial Doppler. Plethysmography of extremity vessels will also be discussed.
Corequisite: SON 276L.

SON 276L Vascular Sonography Laboratory II 1 (0,4,0,0)
Focuses on the use of “Indirect Testing” methods in the performance of vascular ultrasound procedures in a supervised lab on campus.

SON 280B Sonographic Clinical Practicum I 2 (0,0,16,0)
Provides 16 hours per week of supervised ultrasound clinical experience.

SON 281B Sonographic Clinical Practicum II 2 (0,0,16,0)
Provides 16 hours per week of supervised ultrasound clinical experience.
Prerequisite: SON 280B.

SON 282B Sonographic Clinical Practicum III 3 (0,0,24,0)
Provides 24 hours per week of supervised ultrasound clinical experience.
Prerequisite: SON 281B.

SON 283B Sonographic Clinical Practicum IV 3 (0,0,24,0)
Provides 24 hours per week of supervised ultrasound clinical experience.
Prerequisite: SON 282B.

SON 284B Sonographic Clinical Practicum V 3 (0,0,24,0)
Provides 24 hours per week of supervised ultrasound clinical experience.
Prerequisite: SON 283B.

SON 290B Sonography Registry Review 2 (2,0,0,0)
A review of material covered in all previous sonography courses. Designed to prepare students to take the Abdominal, Obstetrics and Gynecology, and Ultrasound Physics and Instrumentation registries.

SON 291B Cardiac Registry Review 2 (2,0,0,0)
Review of all course content for Cardiac/Vascular program with emphasis on registry question.

Spanish

SPAN 101B Basics of Spanish I 3 (3,0,0,0)
An introductory Spanish course emphasizing spoken communication and development of elementary structures in Spanish. It may not transfer to other institutions.

SPAN 102B Basics of Spanish II 3 (3,0,0,0)
A continuation of the basic language skills learned in SPAN 101B, emphasizing spoken communication and development of elementary structures in Spanish. Course may not transfer to other institutions.
Prerequisite: SPAN 101B.
SPAN 105B  Spanish for Health Professions I  3 (3,0,0,0)
An introductory course emphasizing spoken communication. Students study basic grammatical concepts in a variety of practical settings and specialized vocabulary needed by personnel in the health professions.
Prerequisite: SPAN 105B or equivalent

SPAN 106B  Spanish for Health Professions II  3 (3,0,0,0)
A continuation of SPAN 105B; students continue studying specialized vocabulary and basic grammatical concepts needed by health professions personnel and apply it in practical settings.
Prerequisite: SPAN 105B or equivalent knowledge of basic Spanish structures and vocabulary.

SPAN 111  First Year Spanish I  4 (4,0,0,0)
A beginning level Spanish course emphasizing the development of language skills (listening, speaking, reading, and writing) and cultural understanding. Emphasis on basic communication.

SPAN 112  First Year Spanish II  4 (4,0,0,0)
This is the second semester of first-year Spanish concentrating on the development of language skills in the present and simple past tenses (listening, speaking, reading and writing) and cultural understanding. Emphasis on basic communication.
Prerequisite: SPAN 111.

SPAN 116B  Spanish for Law Enforcement I  3 (3,0,0,0)
Emphasizes spoken communication, including the specialized vocabulary and basic grammatical concepts needed by Law Enforcement personnel. Will provide applications of Spanish in situations ranging from domestic violence to reading the Miranda warning.

SPAN 126  Introduction to Spanish for Heritage Speakers  3 (3,0,0,0)
This course focuses on expanding intermediate-level vocabulary, developing oral skills, and exploring basic grammatical concepts to prepare students for second year courses. The course was designed for students who grew up or spent significant amounts of time in a Spanish-speaking environment.

SPAN 211  Second Year Spanish I  3 (3,0,0,0)
The development of intermediate language skills using a variety of tenses (listening, speaking, reading, and writing) and cultural understanding. Emphasis on incorporation of intermediate communication.
Prerequisite: SPAN 112.

SPAN 212  Second Year Spanish II  3 (3,0,0,0)
The development of intermediate language skills using a comprehensive variety of tenses (listening, speaking, reading, and writing) and cultural understanding. Emphasis on mastery of intermediate communication.
Prerequisite: SPAN 211.

SPAN 215  Intermediate Spanish Conversation I  3 (3,0,0,0)
Designed to continue and improve the oral communication and listening skills of the student who has completed SPAN 212 or has the equivalent knowledge.

SPAN 216  Intermediate Spanish Conversation II  3 (3,0,0,0)
Designed to continue and improve the oral communication and listening skills of the student who has completed SPAN 212 or SPAN 215 or has the equivalent knowledge.

SPAN 223  Spanish Caribbean Culture  3 (3,0,0,0)
This course examines historical, cultural, and social developments of the Spanish Caribbean from pre-Hispanic times to the present. Topics include history, traditions, ethnicity, literature, arts, religion, politics, music, and food. (Same as LAS 223.)

SPAN 224  Mexican Culture  3 (3,0,0,0)
This course focuses on elements that contribute to the formation of the culture and identity of the Mexican nation: history, religion, music, art, food, movies and TV, traditions, celebrations and folklore, social realities, and the relationship with the U.S. Taught in English. (Same as LAS 224.)

SPAN 226  Spanish for Heritage Speakers I  3 (3,0,0,0)
Designed for students who have an informal training in Spanish, but little or no formal instruction. Emphasis on grammar, transfer of literacy skills, vocabulary enrichment and cultural awareness.

SPAN 227  Spanish for Heritage Speakers II  3 (3,0,0,0)
Designed for students who have an informal training in Spanish, but little or no formal instruction. This course continues to examine the topics and skills from SPAN 226; emphasis on grammar, transfer of literacy skills, vocabulary enrichment and cultural awareness.

Surgical Technology

SRGT 101B  Introduction to Surgical Technology  1 (1,0,0,0)
Roles and responsibilities of the Surgical Technologist are discussed, defined, and explored. Includes hands-on demonstrations pertaining to the field of Surgical Technology. Discussion of the educational requirements, certifications, job description, and job outlook of the profession.
SRGT 103B  Pharmacology for the Surgical Technologist  2 (2,0,0,0)
Scientific principles of biological science, pharmacology, and anesthetic agents. Defines the rationale for the use of specific drugs, their therapeutic effects and major side effects on the surgical patient, and how they may alter or influence surgical intervention.
Prerequisite: Acceptance into the program.

SRGT 105B  Surgical Interventions I  5 (4,3,0,0)
Introduces knowledge of specific basic surgical procedures routinely performed in the operating room. Practical experience in basic core surgical procedures will be performed, practiced, and evaluated in preparation for entry into the clinical practicum in surgical procedures.

SRGT 106B  Surgical Fundamentals I  3 (3,0,0,0)
Surgical indications, principles of asepsis, ethical, legal, and moral responsibilities, as well as safe patient care, principles of operating room techniques (including hazards in the surgical suite), and biotechnological sciences are defined.

SRGT 108B  Central Services Practicum  0.5 (0,0,4,0)
The student will be directly involved in the cleansing, sorting, wrapping, packaging and sterilization of surgical instrumentation and supplies. The student will gain an understanding of the functions of central supply and surgical support staff in relation to the preparation and coordination of sterile supplies.
Prerequisites: SRGT 103B and SRGT 105B and SRGT 106B and SRGT 114B.

SRGT 114B  Principles and Practices of Surgical Technology I  3 (2,3,0,0)
Basic concepts necessary to establish, maintain, and coordinate methods required for good patient care preoperatively, intraoperatively, and postoperatively. Principles of operating room techniques and surgical indications are included.

SRGT 204B  Principles and Practices of Surgical Technology II  3 (2,3,0,0)
Defines proper protocol for performance in other roles in the surgical suite. Further understanding of patient care to include laboratory results, specimen care, vital signs, diagnosis, preps and shaving, catheterization, and wound care and classifications. Understand and define proper protocols for emergency situations in the surgical suite.
Prerequisite: SRGT 114B.

SRGT 205B  Surgical Interventions II  5 (4,3,0,0)
Expanding skills to include specialty surgical procedures routinely performed in the operating room. Practical experience in specialty surgical procedures will be performed, practiced, and evaluated.
Prerequisite: SRGT 105B.

SRGT 206B Surgical Fundamentals II  3 (3,0,0,0)
Focus on the professional aspects of the field. With emphasis on psychosocial behaviors necessary to function as an entry-level Surgical Technologist.
Prerequisite: SRGT 106B.

SRGT 207B  Clinical Practicum I  3 (0,0,24,0)
The student will be assigned to specific preceptors to perform in the function of a surgical technologist. The student will actively assist in selection of equipment and supplies, perform surgical scrub, and become a functioning member of the sterile team. The student will progress through specific basic core surgical specialties developing and enhancing skills needed to function as a practicing surgical technologist.
Prerequisite: SRGT 108B.

SRGT 210B  Clinical Practicum II  2 (0,0,16,0)
Student will progress through progressively complex procedures gaining experience and competency in the position of the Surgical Technologist.
Prerequisite: SRGT 207B.

Statistics

STAT 152  Introduction to Statistics  3 (3,0,0,0)
Basic probability and statistical methods with applications (possibly with computers and the internet); correlation, descriptive statistics, experiments, graphical presentation of data, hypothesis and significance testing, linear regression, point and interval estimation, sampling, and/or other related and special topics.
Prerequisites: MATH 124 or MATH 126 or MATH 128 all with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

Travel and Convention Administration

TCA 100B  Concierge Management – Business Operations and Customer Service  3 (3,0,0,0)
This course is an overview of professional duties of corporate, business and hospitality concierges. Focus will be on interpersonal relationships, guest transactions, customer and concierge services.

TCA 101B  Concierge Software Applications and Operations  3 (3,0,0,0)
This course is designed to familiarize students with the fundamentals of a comprehensive software program. The student will learn how to access information, manage events, use the logbook and message center, as well as establish patron profiles and administrative functions.
TCA 110  Introduction to the Convention Industry 3 (3,0,0,0)
Overview of the convention industry, including meetings, trade shows, and incentive travel. Role of the suppliers to the industry also covered. Course provides practical insights into the role of association and corporate meeting planners.

TCA 141  Travel and Tourism I 3 (3,0,0,0)
Survey of travel and tourism; focus on concepts, terminology, demographics, financial significance and trends.

TCA 180  Hotel, Restaurant and Casino Marketing 3 (3,0,0,0)
An introduction to the marketing of hotels, restaurants and casinos. Special attention is given to sales, public relations, advertising, promotions, merchandising and entertainment.

TCA 183  Conference and Convention Planning 3 (3,0,0,0)
Practical insight into the different types of conferences and conventions, the types of organizations that stage such events and how to reach and sell to these different groups. Students will learn how to analyze a hotel and convention property along with other venues, and how to successfully service the various segments of the meeting planning industry.

TCA 188  Special Events Planning 3 (3,0,0,0)
Overview of special event planning for events such as festivals, fairs, fund raisers, family occasions, civic celebrations, athletic competitions, parades, and theme parties. Students will learn organizational skills, and creativity in the design, planning, marketing, and staging of an event.

TCA 190  Introduction to Destination Marketing 3 (3,0,0,0)
Study of Convention and Visitors Bureaus on a domestic level and National Tourism Organizations on an international level to examine economic impact of visitor markets and advertising, promotion, sales and public relations.

TCA 200  Airlines Reservations 3 (3,0,0,0)
An introduction to Computer Reservation Systems (CRS) used in the airline/travel agent industries. Emphasis will be on specialized airline computer terminology.

TCA 201  Hospitality Career Development 3 (3,0,0,0)
Prepares students for fulfilling balanced careers as hospitality professionals. Takes a strategic orientation to career planning (3 to 5 years) by facilitating students developing a personal mission statement and relevant strategies for designing and living a satisfying whole life.
Prerequisites: HMD 101; and ENG 100 or ENG 101 or ENG 113.

TCA 221  Hospitality Accounting I 3 (3,0,0,0)
Hospitality accounting principles and practices pursuant to the industry’s uniform system of accounts.
Prerequisites: MATH 104B and MATH 124 or above.

TCA 222  Wedding Planning 3 (3,0,0,0)
Students will learn the business of wedding planning to include creating a guest list, hiring vendors, and creating a beautiful wedding event. Students will gain practical knowledge of traditional, non-traditional, and destination wedding planning.

TCA 225  Introduction to International Tourism 3 (3,0,0,0)
Study of international travel and tourism. Focuses on the economic, social, political and environmental considerations of international tourism management and development. International tourist destinations are explored.

TCA 241  Travel and Tourism II 3 (3,0,0,0)
Evaluates the economic, social and political impact of tourism and travel, including markets, transportation, media, destination development and the interrelationship of cooperating agencies.

TCA 242  Travel Industry Operations 3 (3,0,0,0)
Examination of services and functions of retail and wholesale travel agencies. Agency administration, ticketing, accounting, promotion, travel counseling, selling, and procedures will be covered. Field trips will supplement classroom discussions.

TCA 251  Tourism and Convention Externship 3 (0,0,0,8)
On-site career orientation and training program in the following areas: convention/meeting/trade shows, transportation fields, destination management/marketing, hospitality/casinos, accounting/finance, club, hotel catering, entertainment, theme parks or tourism.

TCA 276  Introduction to Trade Show Operations 3 (3,0,0,0)
Overview of the trade show industry. Students will learn how to develop, plan, create and evaluate domestic and international trade shows. Students will also learn how to promote and sell to attendees and exhibitors.

TCA 289  Introduction to Corporate Meetings and Events 3 (3,0,0,0)
Students will learn how to become successful corporate meeting planners. Students will be able to produce and market a variety of industry functions such as company events, new product/service launches, customer relations functions, and tools to evaluate an event performance.
TCA 295  Work Experience in Tourism and Convention Industry  1 (0,0,0,1)  
In addition to the academic requirements, the Department of Hospitality Management requires 200 hours of acceptable employment in the hospitality industry. This work experience will be measured qualitatively as well as quantitatively. The work experience requirement should be met during the school year or in summers. Students who plan to transfer to UNLV will be able to transfer a maximum of 500 hours of employment toward UNLV’s 1000-hour employment requirement. International students must go to the office of International Student Services to verify employment eligibility and obtain authorization. This course can be repeated up to up to a maximum of four credits. Grade will be given upon verification of employment.

Thai

THAI 101  Basics of Thai I  3 (3,0,0,0)  
Introduction to Thai language and culture. A course focusing on spoken communication and the development of language skills in listening, speaking, and structural analysis. Emphasis on the student’s acquisition and control of the basic sound structures and simple sentences. A vocabulary of Thai-English words developed. Oral emphasis.

THAI 111  First Year Thai I  4 (4,0,0,0)  
The development of language skills in listening, speaking, reading and writing; structural analysis. Oral Emphasis.

Theatre

THTR 100  Introduction to Theatre  3 (3,0,0,0)  
Survey of dramatic literature and history emphasizing the development of drama from Greek to the contemporary. Critical analysis of all phases of theatre production including acting, directing and playwriting.

THTR 101  Stand-Up Comedy  3 (3,0,0,0)  
An introductory course focusing on writing and solo performance of comedic work. Students will witness contemporary stand-up comics, study the psychological effects of comedy, and develop their own unique comedic writing and performance style that will culminate in performances. May be repeated four times for credit.

THTR 105  Introduction to Acting I  3 (3,0,0,0)  
Introductory acting class focusing on the process of acting through the use of games, exercises, monologues, and short partnered scenes. This class is intended for non-theatre majors.

THTR 108  Introduction to Playwriting  3 (3,0,0,0)  
Fundamentals of the craft of writing plays, stressing elements such as plot, character, dialogue, and structure. Emphasis on writing short plays.  
Prerequisite: THTR 199 (or taken concurrently); or Instructor approval.

THTR 133  Fundamentals of Directing  3 (3,0,0,0)  
Introduction to the process of directing for the stage. Attention will be paid to script analysis, conceptualization of a play, ground plans, working with designers, planning rehearsals, visual composition of the stage, blocking actors, and the practical experience of directing actors and casting a play.  
Prerequisite: THTR 199 (or taken concurrently).

THTR 199  Play Structure and Analysis  3 (3,0,0,0)  
Identification and analysis of key elements of dramatic structure and text analysis necessary for theatrical realization from the point of view of the playwright, director, actor, and designer using plays from a variety of genres.

THTR 204  Theatre Technology I  3 (3,0,0,0)  
Fundamentals of technical theatre production. Emphasis on theatre shapes, personal organization, techniques of scenic and prop construction and graphics.

THTR 208A  Acting Practicum  1-2 (0,3-6,0,0)  
Introductory practicum in which students perform in a departmental theatre production. May be repeated four times for credit.  
Prerequisite: Students must audition and be cast before enrolling for credit.

THTR 208C  Costume Construction Practicum  1-2 (0,3-6,0,0)  
Introduction to construction techniques used in the creation of costumes for the stage. May be repeated four times for credit.  
Prerequisite: Instructor approval

THTR 208D  Scenery Construction Practicum  1-2 (0,3-6,0,0)  
Introduction to fundamentals of scenic stagecraft through practical application in the department's scene shop. May be repeated four times for credit.  
Prerequisite: Instructor approval

THTR 208E  Special Topics Practicum  1-2 (0,3-6,0,0)  
Introductory practicum for students to serve in special capacity for a departmental theatre production, e.g., dramaturgy, directing, marketing, vocal coaching, house management, and theatre librarian. May be repeated four times for credit.  
Prerequisite: Instructor approval

THTR 214  Theatre Technology II  3 (3,0,0,0)  
Continuation of Stagecraft I including scene painting, lighting and sound.  
Prerequisite: THTR 204.
THTR 228  Voice and Diction for the Stage I  3 (3,0,0,0)
An intensive studio approach to fundamental relaxation and breathing techniques for the speaking voice. Students will learn skills in scoring the text, various techniques for good speech, and the International Phonetic Alphabet by applying these techniques to actual texts for performance and evaluation.
Prerequisite: THTR 199 or Instructor approval.

THTR 229  Movement for the Stage  3 (3,0,0,0)
This course focuses on the basic elements of physical movement from a variety of disciplines as they pertain to the craft of acting, leading to a greater awareness of the actor’s body. This class is intended for declared Theatre majors or students pursuing the CoA in Acting.
Prerequisite: THTR 199 and THTR 228; or Instructor approval.

THTR 231  Acting Studio I: Technique  3 (3,0,0,0)
An intensive studio approach to introduce the student to the basic principles of acting and its artistry through vocal and physical awareness, character development and analysis, and scene study. This class is intended for declared Theatre majors or students pursuing the CoA in Acting.
Prerequisite: THTR 199 or Instructor approval.

THTR 235  Design Aesthetics and Drafting for the Theatre  3 (3,0,0,0)
Fundamentals of visual composition, design theory, and drafting techniques for the stage.
Prerequisite: THTR 199 and 204; or Instructor approval.

THTR 245  Basic Stage Combat  3 (3,0,0,0)
An introduction to the principles of conflict, combat safety, and standard proficiency skills for Unarmed Combat, Quarterstaff, and Rapier. Emphasis will be on the development of the actor’s approach to fight choreography and making a scene safe, truthful and interesting.
Prerequisites: THTR 105 or THTR 199 or Instructor approval.

THTR 247  Beginning Improvisation  3 (3,0,0,0)
Exploration of basic theatrical improvisation for non-theatre majors. Focuses on spontaneity, creating environment, character development, and structure of a scene. Variety of theatrical styles and improvisational techniques explored. May be repeated four times for credit.

THTR 255  Collaborative Theatre and Performance  3 (3,0,0,0)
This course focuses on creating original theatrical pieces using new play development and devised theatre through the collaboration of playwrights, actors, and directors. Original theatrical pieces will be performed in the New Play Festival for CSN Theatre. Required: Night and weekend attendance during tech week and performances of New Play Festival. Intended for Theatre majors and those pursuing CoA in Acting. May be repeated four times for credit.
Prerequisite: THTR 199 and students must audition and be cast before enrolling for credit.

THTR 275  Theatre Seminar  0 (0,0,0,1)
Weekly seminar that will include discussions of current events in Theatre, master classes with guest artists, and informal presentation of monologues and scenes. Attendance to ten on-campus seminars is required of every Theatre major for four semesters. Intended for Theatre majors.
Prerequisite: THTR 199 (or taken concurrently).

THTR 276  Collaborative Theatre and Performance  3 (3,0,0,0)
This course focuses on creating original theatrical pieces using new play development and devised theatre through the collaboration of playwrights, actors, and directors. Original theatrical pieces will be performed in the New Play Festival for CSN Theatre. Required: Night and weekend attendance during tech week and performances of New Play Festival. Intended for Theatre majors and those pursuing CoA in Acting. May be repeated four times for credit.
Prerequisite: THTR 199 or Instructor approval.

THTR 280  Acting Studio: Audition  3 (3,0,0,0)
Students will prepare audition repertoire, prepare monologues and work on audition technique for auditions, cold readings, and callbacks. Intended for Theatre majors and those pursuing the CoA in Acting.
Prerequisite: THTR 231 or Instructor approval.

THTR 285  Acting Studio I: Private Coaching  1 (0,0,0,0.5)
Private instruction of Theatre majors and those pursuing the CoA in Acting. Students will analyze and perform monologues and prepare audition repertoire. Required: Performance in THTR 275 and jury at the end of the semester. May be repeated up to 6 credits.
Prerequisite: THTR 199 and 231; or Instructor approval.

Veterinary Technology

VETT 101B  Introduction to Animal Health Technology  1 (1,0,0,0)
Orientation to career field covering ethical and legal aspects, maintenance and treatment of animals, species and breed identification, professional organization/publications, and introduction to veterinary terminology.
Prerequisite: Admission to Veterinary Technology Program.

VETT 105B  Veterinary Medical Terminology  1 (1,0,0,0)
An introduction to word derivation and formation of medical terminology with emphasis on applications in veterinary medicine.
Prerequisite: Admission to Veterinary Technology Program.
VETT 110B  Clinical Anatomy and Physiology I  4 (2,6,0,0)
Study of the comparative anatomy of common domestic and select-
ed exotic animals using the feline as the study animal. This course
includes a laboratory section and it is required that the lecture and
laboratory are successfully completed independently.
Prerequisite: Admission to Veterinary Technology Program.

VETT 112B  Clinical Anatomy and Physiology II  4 (2,6,0,0)
Continuation from VETT 110B of the study of the comparative
anatomy and physiology of common domestic and selected exotic
animals utilizing the feline as the study animal. This course
includes a lecture and laboratory section. It is required that the
lecture and laboratory are successfully completed independently.
Prerequisite: Admission to the Veterinary Technology Program and
VETT 110B.

VETT 125B  Veterinary Office Clinic Procedures  2 (2,0,0,0)
Roles and responsibilities of veterinary technicians in veterinary
practice, along with instruction on scheduling, client relations,
bookkeeping and business procedures, veterinary medical
records, inventory control, personnel management, animal
husbandry, and veterinary assisting.
Prerequisite: Admission to Veterinary Technology Program.

VETT 127B  Basic Animal Nursing  4 (3,3,0,0)
An introduction to the basics in veterinary medical nursing: ani-
mal husbandry, animal behavior, restraint, physical examination,
medication administration (various routes), aseptic techniques and
procedures, first aid, sanitation and disinfection, and hazards in
veterinary practice.
Prerequisite: Admission to Veterinary Technology Program.

VETT 203B  Veterinary Clinical/ General Pathology  4 (3,3,0,0)
Basic urinalysis, hematological evaluations, identification of
common blood, internal and external parasites, basic serological
testing, essentials of common companion animal diseases, necropsy
techniques, and other related laboratory evaluations.
Prerequisite: Admission to Veterinary Technology Program.
Corequisite: VETT 209B.

VETT 205B  Diagnostic Imaging  2 (1,3,0,0)
An introduction to the physics of x-rays and radiographic image
production. Basic operation of imaging equipment with associated
safety precautions, image processing, development of a technique
chart, technique evaluation, principles of patient positioning, and
alternative imaging techniques will be discussed.
Prerequisite: Admission to the Veterinary Technology Program.

VETT 208B  Lab Animal Science and Exotics  2 (1,3,0,0)
Create a better understanding and wider knowledge of experimental
methods and special procedures specific to research and non-com-
panion animals. Regulatory and research requirements for their
care, and treatment will be reviewed. Review of the anatomical and
physiological characteristics of laboratory and exotic animals.
Prerequisite: Admission to Veterinary Technology Program.

VETT 209B  Parasitology  1 (1,0,0,0)
Familiarize the student with the most commonly encountered
internal and external parasites of domestic animals. In part basic
knowledge of parasitic life cycles and explore the intricacies of
the host parasite relationship. Detail major diagnostic procedures
necessary to identify important parasites. Describe the diseases,
public health significance, and economic consequences of parasitic
infection and infestation.
Prerequisite: Admission into the Veterinary Technology Program.
Corequisite: VETT 203.

VETT 211B  Animal Nutrition  2 (2,0,0,0)
Normal and therapeutic nutritional needs of various species of
animals and ration formulation are covered.
Prerequisite: Admission to Veterinary Technology Program.

VETT 225B  Pharmacology and Toxicology  2 (2,0,0,0)
Basics of veterinary pharmacology and toxicology; handling, stor-
ing and documenting controlled substances; vaccinology; routes
and methods of drug administration based on a systems-oriented
approach.
Prerequisite: Admission to Veterinary Technology Program.

VETT 227B  Advanced Animal Nursing  4 (3,3,0,0)
Continuing study of animal nursing practices with emphasis on
advanced clinical procedures and patient care. Advanced tech-
niques in animal restraint, first aid, bandaging techniques, wound
management, fluid therapy, transfusion medicine, physical therapy,
pain management, patient monitoring, neonatal care, medical and
surgical nursing, and oncology will be covered.
Prerequisite: Admission to Veterinary Technology program and
VETT 127.

VETT 230B  Principles of Asepsis  1 (1,0,0,0)
An introduction to the principles of asepsis, preparation and oper-
ating room protocols and etiquette, surgical preparation of the pa-
tient and operating room personnel, and surgical instrumentation.
Prerequisite: Admission to Veterinary Technology Program.
VETT 235B Surgical, Anesthesia and Dental Procedures 4 (3,3,0,0)
Introduction to preanesthesia, anesthesia support and pain management; continuation of veterinary surgical assisting and post-op care; veterinary dental procedures/techniques.
Prerequisite: Admission to Veterinary Technology Program.

VETT 240B Large Animal Procedures 2 (2,0,0,0)
Veterinary procedures for large animals, restraint safety, nursing consideration, surgical preparation and assisting.
Prerequisite: Admission to Veterinary Technology Program.

VETT 250B Critical Care/ER 3 (2,3,0,0)
An introduction to technical skills needed to care for critically ill patients. Supportive therapies and procedures for emergency care and discussion of types of emergencies that might be seen.
Prerequisite: Admission to Veterinary Technology Program.

VETT 260B Directed Clinical Practice I 2 (0,0,8,0)
Development of clinical skills though direct clinical associations with specific cooperating veterinary practices.
Prerequisite: Admission to Veterinary Technology Program.

VETT 265B Directed Clinical Practice II 2 (0,0,8,0)
Development of clinical skills through direct clinical associations with specific cooperating veterinary practices.
Prerequisite: Admission to Veterinary Technology Program.

VETT 266B Directed Clinical Practice for Certificate of Achievement Students 2 (0,0,8,0)
Animal health theory and skills applied in a clinical setting. Graded Pass/Fail.
Prerequisite: Admission to Veterinary Technology Alternate Program.

VETT 299B Independent Study 1-4 (1-4,0,0,0)
Covers selected topics of interest to veterinary technician students.
Prerequisite: Instructor approval.

Vidography

VID 100B Movies and Media 3 (3,0,0,0)
Analysis of movies and media, the meaning of images and stories, cinematic narrative structure, genre criticism and auteur theory. A consideration of these core issues: What is film and what are its elements; What is film grammar? What are film stories, plots? How can we talk about films in ways that enrich our understanding and appreciation of both the art form and culture?

VID 101B Film Directing Styles 3 (3,0,0,0)
Analysis of the film director’s craft; the director’s relationship with key creative collaborators of the production team, directing techniques and styles, and sampling of representative cinematic movements.

VID 102B World Cinema 3 (3,0,0,0)
Survey of contemporary world cinema. Class also involves an examination of seminal movements in world cinema and the influence and impact of these movements on the history of cinema. We will view and engage in discussions about films from around the world – studying them from stylistic, historical, and economic perspectives.

VID 103B American Independent Cinema 3 (3,0,0,0)
This course studies the evolution of independent filmmaking through a close examination of cinematic and narrative styles, emerging technologies, independent financing, production budgets, exhibition, and distribution.

VID 104B Introduction to American Cinema 3 (2,2,0,0)
This course examines a deeper understanding of how television and movies communicate to an audience. Analysis of the creative process and film content will be investigated through home viewing of films, textbook readings, online screenplay readings, and online dialogue.

VID 105B Communication in Hollywood 3 (2,2,0,0)
Hollywood operates through several unique forms of communication: screenplays, film reviews, and well-defined social interaction. This course examines these three elements through readings, online dialogues, and viewing movies. Students will also write film reviews, learn basic screenplay format and plan out a complete Hollywood career.

VID 107B Adobe Premiere Pro Bootcamp 1 (0.5,2,0,0)
Practical application and use of Adobe’s nonlinear editing program. Five-week course focuses on the essentials of using Premier Pro to edit projects using existing raw media, covering workflow, interface, tools, terminology and techniques used for creating a completed, edited sequence. All work will be performed within Adobe Premiere Pro using Adobe Media Encoder for final output. Instruction will focus on the software, and students are expected to have a basic, working knowledge of digital post-production. All necessary media will be supplied. Class acts as a great companion to VID 110B or VID 115B.

VID 108B Writing the Story for Film and TV 3 (3,0,0,0)
Study of story archetypes, classical film story structures, and alternative story structures (ensemble, non-linear). How story structure relates to genres, how to utilize myths and archetypes to create story structure.
VID 110B  Videography and Film I  3 (2,2,0,0)
Basic filmmaking techniques using portable video equipment. Stresses effective video camera usage, production planning, treatments, storyboarding, lighting, directing, and editing with commercial videography applications.

VID 111B  Film Screenwriting I  3 (3,0,0,0)
Process of organizing film/video screenplay materials to create story concepts, screenplay outlines, and scripts. This class assumes students’ desire to write feature length scripts. The only way to write a screenplay is to look at movies with a critical eye, read screenplays, and write.
Prerequisite: ENG 101 or Instructor approval.

VID 112B  History of Film and Video  3 (3,0,0,0)
A survey of the American and international cinema from its beginnings on the streets of France to the present day digital video evolution. This course will examine the development of Hollywood studio system and the rise of independent filmmaking. Emphasis is on the feature film and its development as a popular art form, medium of personal expression, and its technological development.

VID 115B  Video Editing I  3 (2,2,0,0)
Basic theory behind the editing and manipulation of film and video, coupled with practical applications. Study of common and experimental techniques of editing from the beginning of film to today. Style and content of various films will be analyzed. Student will edit their footage using industry standard software.
Prerequisite: VID 110B.

VID 116B  Documentary Film Production I  3 (2,2,0,0)
Principles of documentary filmmaking. The study of classic documentary films and the production of a short documentary film/video focusing on local themes.
Prerequisite: VID 110B.

VID 120B  Video Grip and Electric Bootcamp  1 (0.5,2,0,0)
An introduction to the proper language and usage of basic grip equipment, lights, and electricity needs of video and film productions. Students must be able to lift at least 30 lbs. of equipment.
Prerequisite: VID 110B.

VID 200B  Cinematography I  3 (2,2,0,0)
Introduction to the study and operations of HD digital video cameras, lenses, apertures, shutter speeds, grip equipment, and to the principles and applications of composition, color, and light for video.
Prerequisite: VID 110B or Instructor approval.

VID 201B  Sound for Video and Film  3 (2,2,0,0)
Explores sound theory and the basics of motion picture production and post-production sound. This course will demonstrate the importance and impact of sound in film, and give students the opportunity to use digital audio recorders, microphones, and booms to successfully record sound for film and video. Post-production techniques such as foley, ADR, and sound effects will also be studied using various software applications.

VID 202B  Screenplay Adaptation  3 (3,0,0,0)
Study of how to adapt previously existing source materials from other media (short story, novella, novel, theater play, true-life story, comic book, song lyric, video game, TV show) into cinematic/screenplay form. Also how to adapt/update/contemporize previously made films (American or foreign) into new works – remakes.
Learning will involve case studies of illustrative types of films and readings of source material.
Prerequisite: VID 111B or Instructor approval.

VID 203B  Directing the Actor for Film  3 (2,2,0,0)
This class analyzes the craft of directing actors for the film/video medium, and gives students a working knowledge of acting theory and practice from the director’s point of view, as well as directing and choreographing actors specifically for the camera.
Prerequisite VID 110B or Instructor approval.

VID 212B  RED Camera Bootcamp  1 (0.5,2,0,0)
Students will setup and operate a RED camera system. Additional emphasis will be on using 4K Raw files to obtain feature film quality image capture and post-production color grading using REDCINE-X software.
Prerequisite: VID 200B or Instructor approval.
VID 213B  Lighting for Video and Film  3 (2,2,0,0)
Introduction to control and modification of natural light and studio applications of tungsten and quartz lighting equipment, as it applies to film and video. Lighting terminology, tools of the trade and lighting techniques for specific needs, like people, rooms, action and products will be taught.
Prerequisites: VID 110B with a C grade or better and MATH 104B or Instructor approval.

VID 214B  Adobe Speedgrade Bootcamp  1 (2,2,0,0)
Theory and practical application of color correction and grading as part of a digital post-production workflow. Five-week course focuses on the essentials of using Adobe Premiere Pro and Adobe Speedgrade, and uses existing, near-complete editing projects. No shooting, capturing or editing will be performed in class. Lectures, demonstrations and class projects cover a variety of common situations which require color correction and grading. While portions of this class are non-exclusive in nature, much of this class is platform-specific. All necessary media will be supplied.
Prerequisites: VID 107B and VID 110B.

VID 215B  Video Editing II  3 (2,2,0,0)
Advanced methods in non-linear editing. Skills will be developed further and moved towards the artistic side of editing. Practical application in story and theme manipulation will be among the course projects including story manipulation through editing decisions. Editing and manipulation of existing material will be required during the course. While the editing software used will be Adobe Premiere Pro, instruction will be non-exclusive in nature.
Prerequisites: VID 115B and Instructor approval.

VID 216B  Documentary Film Production II  3 (2,2,0,0)
Intermediate principles of documentary film making with emphasis on producing and shooting in the Electronic News Gathering (ENG) style. Each student will create two short documentary films.
Prerequisite: VID 115B and VID 116B and VID 210B or Instructor approval.

VID 217B  Event Videography  3 (2,2,0,0)
Topical event programs produced from pre-production to post-production with emphasis on client/producer interaction, deal memos, industry release forms, and music copyright.
Prerequisite: VID 200B or Instructor approval.

VID 220B  Cinematography II  3 (2,2,0,0)
An advanced investigation into the visual language and technical aspects of motion picture film and digital filmmaking. This course places additional emphasis on Super 16mm film, HD cameras, lighting and grip equipment. In addition, techniques for assuring the highest possible quality image and sound.
Prerequisite: VID 200B or Instructor approval.

VID 221B  Adobe Encore Bootcamp  1 (0.5,2,0,0)
Practical application and use of Adobe’s DVD Authoring program. Five-week course focuses on the essentials of using Adobe Premiere Pro, Adobe After Effects, and Adobe Encore using existing, completed editing projects. No shooting, capturing, or editing will be performed in class. Lectures, demonstrations, and class projects cover a variety of information relating to the DVD authoring workflow. Students will create from scratch an entire DVD project, complete with custom, full motion menus. All necessary media will be supplied. Familiarity with Adobe Premiere Pro is required, and a working knowledge of Adobe After Effects is recommended.
Prerequisite: VID 107B and VID 115B.

VID 222B  Producer Bootcamp  1 (0.5,2,0,0)
The Producer’s Class is a course on the fundamentals of motion picture producing. This course will have a strong emphasis on projects with a micro/mini budget, and will focus on production conception, management, and delivery of a picture to the marketplace.
Prerequisite: VID 110B

VID 250B  Motion Graphics for Video and Film  3 (2,2,0,0)
Advanced digital editing and compositing techniques featuring Adobe’s After Effects, and Adobe’s Photoshop. This course provides an overview of the entire workflow, from import to export, as well as detailed coverage of each stage, including hands-on experience of 2D compositing techniques, animation, titles, graphic overlays, masking, and color correction.
Prerequisite: VID 115B or Instructor approval.

VID 260B  Adobe Production Suite Integration  3 (2,2,0,0)
Practical application and use of Adobe Production Suite, focusing on unlocking the power of this collection of programs by exploring Adobe’s Dynamic Link. Instruction, demonstrations, and class projects will feature partially completed sequences, which students will finish using Adobe Premiere Pro as their starting point. Completing projects will require incorporating Adobe’s other programs such as After Effects, Photoshop, Encore, Audition, Speedgrade, and Media Encoder and integrating them into a single, cohesive workflow. No shooting or capturing will be performed in class. All necessary media will be supplied.
Prerequisites: VID 107B and VID 115B.

VID 262B  Rock Video Production  3 (2,2,0,0)
This course covers the basics of conceptualizing and producing a concert/performance style Rock music video from beginning to end. Proper camera placement and lighting as well as timing of visual elements to fit musical pace will be emphasized. Editing techniques of successful music videos with regard to artistic flair and production design will be studied. All of these skillsets will be used in the production of one or more rock videos.
Prerequisites: VID 110B and VID 200B.
VID 263B  Wedding Videography 3 (2,2,0,0)
Basic video techniques, use of portable equipment, and in-camerediting techniques for wedding videography. Stresses camera usage, production planning, storyboarding, lighting, directing and editing with commercial photography/wedding applications.
Prerequisites: VID 110B and VID 200B or Instructor approval.

VID 289B  Special Topics for Video and Film 1-3 (0,3-9,0,0)
Special topics related to Videography and Film. Topics will vary depending on student and industry demand. This course may be repeated up to a maximum of nine credits.
Prerequisite: Instructor approval.

VID 290B  Video Portfolio 3 (2,2,0,0)
Provides an opportunity for highly-motivated students capable of self-directed study in creating original moving image works in a range of genres. The instructor will facilitate in-class critiques and provide conceptual, aesthetic, and technical feedback and support on an individual basis for the development and manufacture of a useful video portfolio. For Videography and Film majors only.
Prerequisite: Instructor approval.

Welding

WELD 115B  Welding Inspection and Testing Principles 3 (2,2,0,0)
Provides classroom and laboratory instruction in common destructive and non-destructive testing methods used to determine the quality and soundness of welds.

WELD 116B  Ultrasonic Non-destructive Testing – Level I 3 (2,2,0,0)
Covers ultrasonic testing of material, including theory, terminology, principles, and applications. Course meets 40-hour requirement for ASNT Level I Inspector.
Prerequisite: WELD 115B.

WELD 130B Welding Support Equipment Operations 3 (2,2,0,0)
Covers service, set up, operation and troubleshooting of welding support equipment including: ironworkers, drill presses, mag drills, grinders, bandsaws, cranes and rigging.

WELD 131B  Blueprint Reading, Layout and Sketching 3 (3,0,0,0)
Provides instruction in the interpretation, reading and understanding of blueprints, drawings, weld symbols, fabrication layout and free hand sketching commonly used in the welding trade.

WELD 132B  Oxy/Fuel, Plasma and Carbon Arc-Air Cutting Operations 2 (1,3,0,0)
Provides classroom and laboratory instruction in oxy/fuel, plasma and CAC-A cutting applications. Topics include lay-out, base metal preparation, and machine and hand cutting operations.

WELD 133B  SMAW (Stick) 4 (1,6,0,0)
Provides classroom and laboratory instruction in skill development and proficiency of Shielded Metal Arc Welding of mild steel plate in all positions.

WELD 134B  GTAW (Tig) 4 (1,6,0,0)
Provides classroom and laboratory instruction in the proper techniques, skill development and proficiency of GTA Welding of mild steel, aluminum and stainless steel gage material in various positions.

WELD 135B  GMAW (Mig) 2 (1,3,0,0)
Provides classroom and laboratory instruction in the proper techniques, skill development and proficiency of GMAW of mild steel and aluminum in various positions.

WELD 137B  FCAW (Flux Core) 2 (1,3,0,0)
Provides classroom and laboratory instruction in the proper techniques, skill development and proficiency of FCAW-S and FCAW-G of mild steel in various positions.

WELD 154B  D1.1 Structural Welding Code 3 (3,0,0,0)
Provides extensive classroom instruction on the AWS D1.1 Structural Welding Code, covering topics such as Procedure Qualification Records, Weld Procedure Specifications, welded connections, fabrication and inspection.

WELD 214B  Fabrication Layout 3 (1,4,0,0)
Provides instruction on basic fabrication principles, safety, measurement, layout techniques using blueprints and weld symbols and the use of common fabrication tools and associated equipment.
Prerequisites: WELD 131B and WELD 132B and WELD 133B or Instructor approval.

WELD 218B  Pipe Welding Procedures 4 (1,6,0,0)
Provides instruction on the proper techniques, skill development and proficiency of pipe welding using SMAW fillet and pipe groove welds on plate/piece in all positions.
Prerequisite: WELD 133B or Instructor approval.

WELD 219B  Ornamental Iron 3 (1,6,0,0)
This class is designed for the do-it-yourself individual who wishes to use his or her knowledge of welding as an addition to his/her own field in the art of ornamental iron fabrication.
WELD 223B  Special Topics in Welding Technology  2-6 (1-5,3-6,0,0)
Custom designed course content in welding technology with variable credit for managers, technicians, engineers, labor groups and others. Variable start times and dates.

WELD 240B  Advanced GTAW  4 (1,6,0,0)
Provides instruction on the proper techniques and skill development of advanced GTAW with emphasis on pipe fillet and groove welds on plate/pipe in various positions.

WELD 270B  Welding Certification Preparation  1 (0,2,0,0)
This course prepares experienced welders for qualification (certification) to welding codes AWS, ASME IX, and API 1104. May be taken up to a maximum of four credits.
Prerequisite: Instructor approval.

Women’s Studies

WMST 101  Introduction to Women’s Studies  3 (3,0,0,0)
Introduces the methods and concerns of women’s studies drawing from history, psychology, sociology, law and language concerns.

WMST 113  Gender, Race, and Class  3 (3,0,0,0)
Interdisciplinary, cross-cultural survey of the ways in which gender interacts with race, age, class, and sexuality to shape human consciousness and determine the social organization of human society.

WMST 113H  Gender, Race, and Class – Honors  3 (3,0,0,0)
Interdisciplinary, cross-cultural survey of the ways in which gender interacts with race, age, class, and sexuality to shape human consciousness and determine the social organization of human society. Emphasis on interactive learning entailing an examination of the self and one’s environment through the use of reflective writing and dialogue.
Prerequisite: Admission to the Honors program.

WMST 180  The Economics of Discrimination  3 (3,0,0,0)
The Discrimination of Economics investigates the economic causes, effects, and remedies of discrimination based on categories such as age, ethnicity, gender, religion, national origin, or sexuality. (Same as ECON 180.)

WMST 247  Philosophy and Women  3 (3,0,0,0)
Variety of philosophical writings by or about women, from Plato to the present, focusing on such key concepts as nature, equality, dignity, freedom, love and self-realization. May include feminist critiques of the Western philosophical tradition. (Same as PHIL 247.)

WMST 250  Introduction to Feminist Theory  3 (3,0,0,0)
American feminist thought in its diversity, examining the differences among liberal, radical, Marxist, socialist, psychoanalytic, and postmodern feminism and the challenges to each posed by women of color.

WMST 255  The American Women’s Movement  3 (3,0,0,0)
Introduction to American women’s history and politics focusing on race, gender, and class relations, and the legal and economic status of women.

WMST 275  Introduction to Marriage and Family  3 (3,0,0,0)
Survey of issues in the sociology of the family including the intersection of race/ethnicity, class, and gender. (Same as SOC 275.)

WMST 285  History of Witchcraft  3 (3,0,0,0)
The study of the figure of the witch from ancient times to the present, and the historical, religious, and social context from which it emerged. The course includes Paleolithic and Neolithic religion, witches in ancient cultures, formulation of the Christian witch concept, the witch hunt in Early Modern Europe and in the British North American colonies, and modern Neo-Pagan witchcraft. (Same as HIST 285.)

WMST 286  Goddess Traditions  3 (3,0,0,0)
A study of goddess images in a variety of cultures from prehistory to the modern age including the history, values, beliefs, practices, and ethics systems associated with goddess imagery. (Same as HIST 286.)

WMST 295  Special Topics  1-3 (1-3,0,0,0)
Intensive study of a major topic in women’s studies. May be repeated to a maximum of 6 credits.

Water/Wastewater Treatment

WWT 101B  Wastewater Treatment I  3 (3,0,0,0)
This course will cover the safe operation of municipal wastewater treatment facilities. Topics include flow measurement, screening, grit removal, sedimentation basins, solids handling, secondary biological processes and disinfection.

WWT 102B  Wastewater Treatment II  3 (3,0,0,0)
This course will cover conventional activated sludge, solids handling, effluent disposal, laboratory procedures, analysis and presentation of data, records and record keeping.
Prerequisite: WWT 101B.
WWT 103B  Environmental Laws and Regulations  3 (3,0,0,0)
This course will provide an overview of the development and contents of current federal, state and local laws, regulations and ordinances that control the handling, storage, and disposal of hazardous materials and wastes.

WWT 105B  Water Treatment Operations I  3 (3,0,0,0)
This course will cover the safe operation of water treatment facilities. Topics include waste resources, reservoir management, coagulation and flocculation, sedimentation, filtration, disinfection, corrosion control and taste and odor control.

WWT 106B  Water Treatment Operations II  3 (3,0,0,0)
This course will emphasize the skills needed by operators of conventional surface water treatment facilities, including operator’s responsibilities for the administration and management of treatment facilities.

Prerequisite: WWT 105B.

WWT 110B  Introduction to Hazardous Materials Management  3 (3,0,0,0)
This course will provide a general overview of the hazardous materials management industry with emphasis on hazardous materials, hazardous waste, laws and regulations, and its effects on the environment and worker health and safety.

WWT 115B  Water/Wastewater Mathematics I  3 (3,0,0,0)
This course will cover mathematical skills used routinely in the water and wastewater treatment industry, including areas, volumes, flows, velocities, loading rates and dosages. Corequisite: MATH 104B.

Prerequisite: WWT 101B or WWT 105B.

WWT 120B  Pump Operation and Maintenance  3 (3,0,0,0)
This course will cover the operation and maintenance of pumps, motors and valves in water and wastewater treatment facilities including collection and distribution systems.

WWT 201B  Wastewater Treatment III  3 (3,0,0,0)
This course will cover odor control, activated sludge, operational control alternatives, solids handling and disposal, phosphorus removal, nitrogen removal, and wastewater reclamation.

Prerequisite: WWT 102B.

WWT 205B  Water Distribution  3 (3,0,0,0)
This course will cover the safe operation and maintenance of water treatment facilities. Topics include storage facilities, distribution facilities, water quality considerations, disinfection and safety.

WWT 210B  Industrial Pretreatment Inspections  3 (3,0,0,0)
This course will provide an overview of the safe and efficient procedures of industrial facilities pretreatment inspections and to provide industrial users with an understanding of local limit requirements.

WWT 215B  Water/Wastewater Mathematics II  3 (3,0,0,0)
This course will include calculation for treatment efficiencies, pumping rates and pump calibration, horsepower, effluent disposal, solids handling and activated sludge.

Prerequisite: WWT 115B.

WWT 220B  Water Quality Analysis  4 (2,4,0,0)
This course will cover lab tests required for water and wastewater treatment process control, including analytical procedures, quality control, and interpretation of data.

Prerequisites: WWT 102B and WWT 115B.

WWT 225B  Wastewater Collection Systems  3 (3,0,0,0)
This course will cover wastewater collection systems operators and managers, including operation, maintenance, design, construction, pumps, motors and safety procedures. This course is oriented towards the wastewater collection certification exam.

Prerequisite: WWT 215B.

WWT 230B  Current Issues  3 (3,0,0,0)
Discussion of current issues in the field of water and wastewater technology.

Prerequisite: COM 115.