Course Descriptions

NOTE TO STUDENTS:
Common Course Numbers/Titles
To make it easier for students to transfer credits among the State’s 34 community and technical colleges, some courses are numbered and titled in a similar way at every community college in the state. Courses that have been identified as Common Course Numbers have “&” in the course number, for example: ENGL 101.
Many courses without an “&” also transfer between two-year and four-year colleges.

Independent Study
Independent Study (can be offered in all subjects)
Cr: 1-5 Wkly hrs: 30 hours per credit Clinic
Courses can be offered as: 195/295. May be repeated for a maximum of 15 credits.
Allows the student to pursue topics not offered in the College Catalog through in-depth coursework under the direction of an instructor. This course may include directed readings, coverage of special topics, and other independent study. The topic and scope of study, learning objectives, work required, methods of evaluation, and academic level (195 versus 295) will be determined in conference between the student and instructor.
Prerequisite: Instructor permission.

Practicum
Practicum (can be offered in all subjects)
Cr: 1-5 Wkly hrs: 10 hours Lab
Courses can be offered as: 199/299
A practical application in the working world of the basic theories studied in the above program or discipline.
Prerequisite: Permission of instructor.

Accounting
ACCT&201–Prin of Accounting I
Cr: 5 Wkly hrs: 5 hours Lecture
Accounting as an information system, the accounting cycle, accounting for a merchandising operation, cash, receivables, and inventories.

ACCT&202–Prin of Accounting II
Cr: 5 Wkly hrs: 5 hours Lecture
Includes accounting for fixed assets, liabilities, partnerships and corporations. Also includes the statement of cash flows as well as the underlying principles of accounting.
Prerequisite: ACCT& 201.

ACCT&203–Prin of Accounting III
Cr: 5 Wkly hrs: 5 hours Lecture
Development and analysis of accounting information for managerial decision-making.
Prerequisite: ACCT& 202 and high school algebra or its equivalent.

Adult Education – Adult Basic Education
ADABE 008–Spelling
Cr: 1-6 Wkly hrs: 6 hours Lecture
Students who complete this course will be able to solve problems using whole numbers, fractions, decimals, percents, ratios, and proportions, and will be introduced to signed numbers and scientific notation. (Pass/No Credit)
Prerequisite: Permission of instructor.

ADABE 009–Orientation to Adult Ed
Cr: 1 Wkly hrs: 1 hours Lecture
An introduction to Olympic College and its Adult Education Program. Students learn to set goals, make an educational plan, and assess their own progress. May be taken twice each academic year.
Prerequisite: Orientation/placement testing.

ADABE 041–Communication Skills 1
Cr: 1 Wkly hrs: 1 hours Lecture
Students who complete this course will be able to solve problems using whole numbers, fractions, decimals, percents, ratios, and proportions, and will be introduced to signed numbers and scientific notation. (Pass/No Credit)
Prerequisite: Permission of instructor.

ADABE 042–Math 2
Cr: 1-6 Wkly hrs: 6 hours Lecture
Students who complete this course will be able to solve problems using whole numbers, fractions, decimals, percents, ratios, and proportions, and will be introduced to signed numbers and scientific notation. (Pass/No Credit)
Prerequisite: Permission of instructor.

ADABE 051–Communication Skills 2
Cr: 1-6 Wkly hrs: 6 hours Lecture
Students who complete this course can identify their goals, define and support a reading purpose, write clear narratives of a paragraph or more, and use a computer to perform routine tasks. (Pass/No Credit)
Prerequisite: Permission of instructor.

ADABE 052–Math 3
Cr: 1-6 Wkly hrs: 6 hours Lecture
Students who complete this course will be able to solve problems using whole numbers, fractions, decimals, percents, ratios, and proportions, and will be introduced to signed numbers and scientific notation. (Pass/No Credit)
Prerequisite: Permission of instructor.

ADABE 061–Communication Skills 4
Cr: 1-6 Wkly hrs: 6 hours Lecture
Students who complete this course will be able to use reading and writing skills in personally relevant contexts, use resources to collect and interpret information, and use a computer to perform routine tasks. (Pass/No Credit)
Prerequisite: Permission of instructor.

ADABE 062–Math 4
Cr: 1-6 Wkly hrs: 6 hours Lecture
Students who complete this course will be able to solve problems using whole numbers, fractions, decimals, percents, ratios, and proportions, perimeter, area, volume, simple interest, and charts, graphs, and tables. (Pass/No Credit)
Prerequisite: Permission of instructor.

ADABE 071–Communication Skills 5
Cr: 1-6 Wkly hrs: 6 hours Lecture
Students who complete this course will be able to write clearly using standard grammar, usage, and punctuation; collect, interpret, and integrate information using multiple resources, and use a computer to complete routine tasks. (Pass/No Credit)
Prerequisite: Orientation/placement or permission of instructor.

ADABE 072–Math 5
Cr: 1-6 Wkly hrs: 6 hours Lecture
Students who complete this course will be able to write clearly using standard grammar, usage, and punctuation identify their goals, define and support a reading purpose, write clear narratives of a paragraph or more, and use a computer to complete routine tasks.
Prerequisite: Orientation/placement or permission of instructor.

ADABE 073–Fundamentals of Reading and Writing
Cr: 1-6 Wkly hrs: 6 hours Lecture
This course helps students develop strategies for reading literal comprehension, find and interpret information from common references, reading activities. Students who complete this course will be able to write clearly using standard grammar, usage, and punctuation identify their goals, define and support a reading purpose, write clear narratives of a paragraph or more, and use a computer to complete routine tasks.
Prerequisite: Orientation/placement or permission of instructor.

ADABE 075–Fundamentals of Reading and Writing
Cr: 1-6 Wkly hrs: 6 hours Lecture
This course helps students develop strategies for reading literal comprehension, find and interpret information from common references, reading activities. Students who complete this course will be able to write clearly using standard grammar, usage, and punctuation identify their goals, define and support a reading purpose, write clear narratives of a paragraph or more, and use a computer to complete routine tasks.
Prerequisite: Permission of instructor.

ADABE 077–Integrated Skills Lab for Health Care
Cr: 1-3 Wkly hrs: 6 hours Lab
This course assists students in developing basic skills necessary for success in their professional-technical career. (Pass/No Credit)
Prerequisite: Orientation/qualifying score on state standardized assessment.

ADABE 198–GED Preparation Lab
Cr: 1-3 Wkly hrs: 6 hours Lab
Class participants work independently in the lab setting as they select activities in reading, writing, or math. This lab helps students to develop the reading, writing, and math skills necessary for completion of the five tests of the GED through self-directed study.
Prerequisite: Orientation/placement or permission of instructor/educational planner.

ADABE 709–GED Preparation
Cr: 1-10 Wkly hrs: 10 hours Lecture
This course helps students to develop the reading, writing, and math skills necessary for completion of the five tests of the GED. (Pass/No Credit)
Prerequisite: Orientation/placement testing.

*See course description for prerequisite.
ADABE 081–Communication Skills
Cr: 1-6  Wkly hrs: 6 hours Lecture
Students who complete this course will be able to write clearly using standard grammar, usage, and punctuation; collect, interpret, and integrate information using multiple resources; and use a computer to complete routine tasks. (Pass/No Credit)
Prerequisite: Orientation/placement or permission of instructor.

ADABE 090–Reading Comprehension 2
Cr: 1-6  Wkly hrs: 6 hours Lecture
Students will learn to read and comprehend words in a simple text, slowly and with few errors, to independently accomplish simple, well-defined and structured reading activities. (Pass/No Credit)
Prerequisite: Orientation/placement testing.

ADABE 091–Reading Comprehension 3
Cr: 1-6  Wkly hrs: 6 hours Lecture
Students will learn to quickly and accurately read and comprehend words and word groups in simple text to independently accomplish well-defined and structured reading activities. (Pass/No Credit)
Prerequisite: Orientation/placement testing.

ADABE 092–Reading Comprehension 4
Cr: 1-6  Wkly hrs: 6 hours Lecture
Students will learn to read a variety of texts at an appropriate pace and with good comprehension to independently accomplish structured, complex reading activities. (Pass/No Credit)
Prerequisite: Orientation/placement testing.

ADABE 093–Reading Comprehension 5
Cr: 1-6  Wkly hrs: 6 hours Lecture
Students will learn to read dense or multipart texts at an appropriate pace and with good comprehension to independently accomplish structured, complex reading activities. (Pass/No Credit)
Prerequisite: Orientation/placement testing.

ADABE 095–Fundamentals of Grammar
Cr: 1-4  Wkly hrs: 4 hours Lecture
Students will have in-depth practice covering eight fundamental areas of basic English grammar to support improvement with writing and reading comprehension skills.
Prerequisite: ADABE 009 or ADABE 009; minimum level 4 ESL placement (ADABE 060 or 061); Concurrent enrollment in a core ABE or ESL class.

ADABE 096–ABE Transitions Reading and Writing 5
Cr: 1-6  Wkly hrs: 6 hours Lecture
Basic skill development in reading/writing. Identify parts of a sentence, grammatical concepts, vocabulary building and decoding.
Prerequisite: HS diploma/GED, Accuplacer scores, CASAS assessment.

ADABE 097–ABE Transitions Reading and Writing 6
Cr: 1-6  Wkly hrs: 6 hours Lecture
Advanced skill development in reading/writing. Identify parts of a sentence, grammatical concepts, vocabulary building and decoding.
Prerequisite: HS diploma/GED, Accuplacer scores, CASAS assessment.

ADABE 098–Beginning Pronunciation ESL
Cr: 2  Wkly hrs: 2 hours Lecture
Improving pronunciation of American English for community, academic, and workplace settings for beginning students with basic English skills.
Prerequisite: Orientation/placement testing.

ADABE 083–Beginning Pronunciation ESL
Cr: 2  Wkly hrs: 2 hours Lecture
Improving pronunciation of American English for community, academic, and workplace settings for beginning students with basic English skills.
Prerequisite: Orientation/placement testing.
ANTh 270–Archeology Field School
Cr: 12 Wkly hrs: 2 hours Lecture, 4 hours Lab
SS - Taught entirely in the field. Training in archaeolog- ical field research methods and techniques, including survey, excavation, artifact analysis, report preparation, and museum curation of archaeological collections.

ANTh 325–Death: A Comparative Perspective
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - Course examines mourning rituals, mortuary practices, beliefs in afterlife, medical/ethical issues, and images of death in both Western and Non Western cultures.
Prerequisite: None (Cultural Anthropology or ADN Degree recommended)

ANTh 350–Applied Anthropology
Cr: 5 Wkly hrs: 5 hours Lecture
SS - This course explores the practical application of anthropology’s methods and theories to address the needs of society, including the challenges and research needs of communities and organizations.
Prerequisite: Acceptance into BAS OLTM program or Instructor Permission

Art

ART 100–Art Appreciation
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H - Student finds personal meaning in visual arts, painting, sculpture, and architecture with emphasis on diversity of form, content, and comparative styles.

ART 102–Art History/Ancient–Byzantine
Cr: 5 Wkly hrs: 5 hours Lecture
H - Major achievements in painting, sculpture, architecture, and the decorative arts in Europe, the Near East and North Africa from prehistori- cian times through the Byzantine Period.

ART 103–Art History/Medieval–Renaissance
Cr: 5 Wkly hrs: 5 hours Lecture
H - Major achievements in painting, sculpture, architecture, and the decorative arts in Europe, The Americas, China, Japan, India and Africa from the Middle Ages to the 16th Century.

ART 104–Art History/Baroque–Modern
Cr: 5 Wkly hrs: 5 hours Lecture
H - Major achievements in painting, sculpture, architecture, and the decorative arts in Europe, the Baroque Period to the present.

ART 106–Drawing I
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H - Drawing from still life and landscape, with an emphasis on observation, technique and design skills.

ART 107–Drawing II
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H - Introduction to techniques in drawing the figure with emphasis on form, light, shadow, and human anatomy.
Prerequisite: ART 106.

ART 110–Design I
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H - Study of the relationship of form; the elements and the principle of art and organization as an understanding of two-dimensional art design.
Prerequisite: ART 110.

ART 117–Art History/Northwest Coast
Cr: 5 Wkly hrs: 5 hours Lecture
H - Art History of the Northwest Coast introduces students to the Native Arts of the Northwest coastal region from Prehistory to the present.

ART 120–Public Art Murals Painting
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Course will cover historical and cultural as well as the economic role of public murals. Students will work collaboratively in both the classroom and the field to create a large mural for an actual client during the quarter. Through coursework students will collaboratively experience design, presentation and construction of mural concept.

ART 125–Ceramics I
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Study of clay as a material for art: emphasis on wheel throwing and hand building construction. Clay and glaze chemistry and glaze application introduced along with firing atmospheres of gas and electric.

ART 206–Drawing III
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Continuation of ART 107 with further study of the figure and emphasis on tech- niques in drawing hands and portraiture.
Prerequisite: ART 107.

ART 210–Design III
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Introduction to digital illustration with emphasis on the elements and principles of art.
Prerequisite: ART 111.

ART 225–Ceramics II
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Continuation of ART 125, with new emphasis on introduction of additional forms and construction methods. Introduction to Glaze calculation and mixing. Introduction to kiln firing.
Prerequisite: ART 125.

ART 226–Ceramics III
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Continuation of ART 225, with further experimentation in porcelain, glazes and firing techniques.
Prerequisite: ART 106, 110, and 225.

ART 230–Watercolor I
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - An introduction to the basic mate- rials and techniques of watercolor painting. Emphasis will be on paint application, color theory and mixing, paper qualities, composi- tion and stylistic possibilities of the medium.

ART 231–Watercolor II
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Continuation of ART 230, encouraging further development of personal imagery, technique and style. A variety of subject matter will be explored.
Prerequisite: ART 230.

ART 232–Watercolor III
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Emphasis on composition combining transparent and opaque watercolor, acrylic, pastels, ink, charcoal and collage. The development of painting within an historical and multicultural context through individual instruction.
Prerequisite: ART 231.

ART 240–Painting I
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Introduction to fundamental tech- niques/materials of acrylic painting. Emphasis on composition, color theory, and paint handling of image.
Prerequisite: ART 106 strongly recommended.

ART 241–Painting II
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Painting studio course in acrylic techniques which examines a variety of color, compositional and stylistic challenges encountered in personal artistic interpretation.
Prerequisite: ART 240.

ART 242–Painting III
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Students will continue development of their painting skills through the exploration of 20th Century color theory and practice, composition and materials.
Prerequisite: ART 241.

ART 266–Sculpture I
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Introduction to materials. Consideration of form. Technical and compositional exercises in clay, plaster, wire, casting materials and found object materials.

ART 267–Sculpture II
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Further practice in the fundamentals of additive, reductive, and constructive sculp- ture. Introduction to large forms, conceptually based artwork and alternative materials. A short presentation about a chosen artist will be required.
Prerequisite: ART 266.

ART 268–Sculpture III
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
H/SP - Intensive creative work in a variety of media including traditional and contempo- rary ideas and their relationship to personal expression. A presentation on Contemporary Art is required.
Prerequisite: ART 267.

*See course description for prerequisite.
Astronomy

ASTRO 101–Introduction to Astronomy
Cr: 5 Wkly hrs: 5 hours Lecture
NS - Modern concepts and theories from the science of astronomy; motions of night-time sky, history of astronomy, light and telescopes, solar system, stars, and galaxies. Particular emphasis on composition of our solar system. 
Prerequisite: MATH 094 (Elementary Algebra) or equivalent.

ASTRO 102–Introduction to Astronomy
Cr: 5 Wkly hrs: 5 hours Lecture
NS - Properties of stars, stellar evolution, the Milky Way and other galaxies, quasars, cosmology. 
Prerequisite: MATH 099 with a grade of 2.0 or above or permission of instructor.

ASTRO 105–Life in the Universe–Astrobiology
Cr: 5 Wkly hrs: 5 hours Lecture
NS - Introduction to Astrobiology, the study of the origin and evolution of life on Earth, and the search for microbial and intelligent life elsewhere in the Universe.
Prerequisite: MATH 094 (Elementary Algebra) or equivalent.

Baccalaureate Nursing

BNURS 320–Statistics for Health Research
Cr: 5 Wkly hrs: 5 hours Lecture
Provides a conceptual approach to statistics including: analysis and utilization of inferential, descriptive statistics and applications to health care research and nursing. Meets the Symbolic/Quantitative Skills requirement for BSN students.

BNURS 321–Nursing Informatics
Cr: 5 Wkly hrs: 5 hours Lecture
Analyzes information systems (IS) as they relate to clinical management, education, and research. Emphasizes informatic skills to promote client safety.
Prerequisite: Enrolled in an ADN, TADN or BSN program or have instructor permission.

BNURS 323–U.S. Health Care Crisis
Cr: 5 Wkly hrs: 5 hours Lecture
SS - Controversies and challenges of U.S. health care including accessibility and costs. (Same as POLS 323).

BNURS 340–Advanced Clinical Reasoning
Cr: 3 Wkly hrs: 3 hours Lecture
Examines nursing concepts and ethical issues related to providing health care for patients with complex clinical situations in various settings. Includes life span and sociocultural factors.
Prerequisite: Acceptance into BSN program or permission of instructor.

BNURS 350–Professional Writing for Nurses
Cr: 3 Wkly hrs: 3 hours Lecture
Analytical reasoning and writing relevant to nursing practice. Focuses on decision making and problem solving related to health problems and clinical situations.
Prerequisite: Acceptance into RN-BSN Program or permission of instructor.

BNURS 402–Families in the Community
Cr: 3 Wkly hrs: 3 hours Lecture
Focus on concepts of health, community, and environments as they relate to the health of diverse families in a range of settings. Nursing roles in family health are explored.
Prerequisite: Acceptance into BSN program or permission of instructor.

BNURS 403–Connecting Research to Nursing
Cr: 3 Wkly hrs: 3 hours Lecture
Introduction to research methodologies and utilizing health care research to support evidence-based nursing practice.
Prerequisite: Acceptance into BSN program. Completion of statistics requirement.

BNURS 407–Perspectives on Diversity
Cr: 3 Wkly hrs: 3 hours Lecture
The human dignity, inherent worth and uniqueness of individuals, families, groups and communities; and the ways that difference is defined, used, and experienced in society.
Prerequisite: Acceptance into BSN program or permission of instructor.

BNURS 408–Health & Wellness Promotion
Cr: 3 Wkly hrs: 6 hours Lab
Assessment and development of a plan of care to promote healthy families in rural and urban communities.
Prerequisite: Acceptance into the RN-BSN program. Successful completion of or concurrent enrollment in BNURS 402.

BNURS 409–Community Health Nursing Theory
Cr: 3 Wkly hrs: 3 hours Lecture
Introduces theories, concepts, and strategies used to promote health for communities and populations.
Prerequisite: Acceptance into RN-BSN program or permission of instructor.

BNURS 410–Contemporary Ethics in Nursing
Cr: 3 Wkly hrs: 3 hours Lecture
Applying ethical theories and identify the influence of cultural, societal, professional and other sources of values on ethical decision making in nursing.
Prerequisite: Acceptance into RN-BSN program or permission of instructor.

BNURS 411–Community Health Nursing Application
Cr: 3 Wkly hrs: 6 hours Lab
Application of theories, concepts and strategies used to promote health for communities and populations.
Prerequisite: Acceptance into RN-BSN program. Successful completion of or concurrent enrollment in BNURS 409.

BNURS 412–Nursing Leadership in Health Systems
Cr: 3 Wkly hrs: 3 hours Lecture
Basic organizational and system leadership for quality care and patient safety. Integration of Institute for Healthcare Improvement standards. Prepares RN to lead change.
Prerequisite: Admission to Baccalaureate Nursing program or permission of the instructor.

BNURS 430–Interactive Nursing Communication
Cr: 3 Wkly hrs: 3 hours Lecture
Explores communication concepts. Emphasis on the theoretical models of communication, and development of communication abilities.
Prerequisite: Acceptance into BSN Program or permission of instructor.

BNURS 450–Professional Development Seminar I
Cr: 1 Wkly hrs: 1 hours Lecture
Prepares registered nurse (RN) professionals for transition to baccalaureate learning and documentation of program outcomes.
Prerequisite: Admission to Baccalaureate Nursing program.

BNURS 451–Professional Development Seminar II
Cr: 1 Wkly hrs: 1 hours Lecture
Evaluation to reflect personal growth and achievement of RN to BSN program outcomes.
Prerequisite: Completion of all upper division general education and all BNURS courses prior to last quarter of study. Concurrent enrollment in BNURS 409 and 411. Completion of BNURS 409 and 411 in spring quarter is required for one year program students.

 Biology

BIOL 101–Introduction to Marine Science
Cr: 5 Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - Origin and extent of the ocean, its biological, chemical, geological, and physical aspects. Interactions of plants and animals in the sea and their use by humans, includes field trips.

BIOL 104–Plant Biology
Cr: 5 Wkly hrs: 5 hours Lecture
NS - Basic content on plants, emphasizing diversity of structures, functions, economic importance, and function of plants in vegetation systems and human communities.

BIOL 114–Natural Hist/Pacific NW
Cr: 5 Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - Field, lecture, and laboratory course emphasizing the identification, habitats, adaptations, and interrelationships of plants and animals that constitute the biomes of the Pacific Northwest.

BIOL 115–Freshwater Biology
Cr: 5 Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - Basic content on plants, emphasizing biological, physical, and chemical factors of the inland water environment. Field trips to ponds, lakes, streams, and estuaries in the immediate area.

BIOL 120–Local Flora
Cr: 5 Wkly hrs: 3 hours Lecture, 4 hours Lab
SS - An introduction to the native flowering plants of Western Washington. Emphasis on the use of taxonomic keys to identify the local flowering plants. For students majoring in forestry, game management, botany, horticulture, ecology, and those interested in learning more about their natural surroundings.

BIOL 130–Ecology of the Northwest
Cr: 5 Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - The course applies basic ecological principles to fresh water ecosystems for the purpose of understanding how to best manage these systems for ecological diversity and human use. Laboratory includes extensive field work.
Prerequisite: One year of Biology.

BIOL 131–Ecology of the Northwest
Cr: 5 Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - The course applies basic ecological principles to the marine, fresh water and forest ecosystems for the purpose of understanding how to best manage these systems for ecological diversity and human use.
Prerequisite: One year of Biology.

*See course description for prerequisite.
BIOL 132–Ecology of the Northwest
Cr: 5  Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - The course applies basic ecological principles to the marine and fresh water ecosystems for the purpose of understanding how to best manage these systems for biological diversity and human use. Laboratory includes extensive field work.
Prerequisite: One year of Biology.

BIOL 140–Environmental Issues
Cr: 5  Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - Ecological principles, the relationship of humans to the environment, and solutions to environmental problems. Recommended for non-science majors. Community service requirement.
Prerequisite: None.

BIOL&160–General Biology w/Lab
Cr: 5  Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - A general overview of important areas of biology for non-science majors beginning at the cellular level and culminating with a consideration of interactions and changes in natural populations. Includes laboratory.

BIOL 170–In Health and Disease w/Lab
Cr: 5  Wkly hrs: 4 hours Lecture, 2 hours Lab
NS - Selection of contemporary topics on the health and disease of the human body. Recommended for non-science majors.
Prerequisite: None.

BIOL&175–Human Biology w/Lab
Cr: 5  Wkly hrs: 4 hours Lecture, 2 hours Lab
NS - The structure and function of major systems and current health issues of the human body. Includes gross anatomy and histology. Recommend for pre-professional programs.

BIOL 199–Practicum
Cr: 1-5  Wkly hrs: 10 hours Lab
Course can be offered as: BIOL 199/299.
A practical application in the working world of the basic theories studied in the above program or discipline.
Prerequisite: Permission of instructor.

BIOL&211–Majors Cellular
Cr: 5  Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - A general overview of life at the cellular and molecular level, including biochemical and cellular structures, cell division, metabolism, genetics, advances in DNA technology. First in a three-course sequence for science majors and pre-professionals.
Prerequisite: None, however, to satisfy the prerequisite for upper division biology courses at some institutions, a year of general chemistry must be completed.

BIOL&212–Majors Animal
Cr: 5  Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - A continuation of BIOL & 211 emphasizing evolution and zoology. For majors, prepares students for advanced biology courses and pre-professional programs.
Prerequisite: BIOL 211 or permission of instructor.

BIOL&213–Majors Plant
Cr: 5  Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - A continuation of BIOL 211 and 212 emphasizing reproduction, growth, and homeostasis in plants as well as the major topics of biology, e.g., populations, communities, and ecosystems. For majors; prepares students for advanced biology courses and pre-professional programs.
Prerequisite: BIOL 211 or permission of instructor.

BIOL&241–Human A & P 1
Cr: 6  Wkly hrs: 4.5 hours Lecture, 3 hours Lab
NS - Analysis of representative vertebrates for the cellular, physiological process in organ systems and their gross anatomy and histology as they pertain to the human body. Enrollment in BIOL & 241-BIOL & 242 insures transferrable credit.
Prerequisite: CHEM 121 and CHEM & 131 (CHEM & 131 may be waived by exam) or CHEM 141 and CHEM & 142 with a grade of 2.0 or better; concurrent enrollment in either CHEM & 131 or CHEM & 142 is permitted but not recommended.

BIOL&242–Human A & P 2
Cr: 6  Wkly hrs: 4.5 hours Lecture, 3 hours Lab
NS - A continuation of BIOL & 241 with emphasis on blood, immunity, respiration, urinary function, digestion, and reproduction. Lab includes dissections and structure identification.
Prerequisite: BIOL & 241 with a grade of 2.0 or better.

BIOL&260–Microbiology
Cr: 5  Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - The structure, function, metabolism, genetics, control and cultivation of microorganisms, and their role in immunity and disease. For pre-professionals.
Prerequisite: CHEM 121 or CHEM & 141/142 and a minimum of 5 credits in any of the following Biology courses with a lab (BIOL 160, BIOL 211, BIOL 241) all with a grade of 2.0 or better.

BIOL 351–Medical Genetics
Cr: 5  Wkly hrs: 5 hours Lecture
NS - Seminar-style and on-line course examining various genetic conditions and their relationship to disease in the population. Discussion will be oriented towards healthcare professionals.
Prerequisite: Ten (10) credits of Biological Science or permission of instructor.

BIOL 360–Pathophysiology
Cr: 5  Wkly hrs: 5 hours Lecture
NS - Concise overview of the disordered physiological processes associated with disease or injury of the adult human body.
Prerequisite: BIOL & 242 grade of 2.0 or better.

BUS 101–Intro to Business
Cr: 5  Wkly hrs: 5 hours Lecture
SS - Business operations: management, marketing, finance, and human resources. Business environments: global, economic, social, ethical, and political.

BUS 201–Business Law
Cr: 5  Wkly hrs: 5 hours Lecture
Origin and development of business law, the legal system, and enforcement of individual legal rights; law of torts, crimes, and business contracts.

BUS 215–Business Statistics
Cr: 5  Wkly hrs: 5 hours Lecture
SS - Application of statistics in the fields of economics and business; descriptive statistics, inferential statistics, linear correlation and regression, probability, sampling, the Normal Distribution, confidence intervals, hypothesis testing.
Prerequisite: MATH 099 within the last 6 years with a grade of 2.0 or above, or satisfactory placement test score.

BUS 330–Business Finance
Cr: 5  Wkly hrs: 5 hours Lecture
This course broadens the non-finance manager/student's understanding of financial concepts and tools needed in financial management and decision making. Students will gain knowledge of finance terms, including time value of money, risk and return, securities valuation, risk management, and capital budgeting. Using basic accounting principles, students will be able to extrapolate data from financial statements for the purpose of financial analysis, goal setting, and budgeting.
Prerequisite: Acceptance into the OLTM BAS program or permission of instructor.

Business Management

BMGMT 102–Introduction–International Business
Cr: 5  Wkly hrs: 5 hours Lecture
Examines the fundamental risks of international exposure and investment. Regional integration, international firm structure and strategy, the global monetary system including foreign exchange, and the world's basic religions and social structure dynamics are also covered.

BMGMT 105–Introduction to Financial Planning
Cr: 5  Wkly hrs: 5 hours Lecture
Explores money management, and wealth creation strategies to include a personal financial plan. Stocks, Bonds, Mutual Funds, Real Estate, Money Markets, Insurance needs, transportation options, and retirement planning. Consumer Credit, Predatory Lending, Identity Theft are also covered.

BMGMT 138–Business Mathematics I
Cr: 3  Wkly hrs: 2 hours Lecture, 2 hours Lab
Formulating and solving practical business mathematical problems, in an applied context including: using one-variable linear equations, percent's, fractions, decimals, trade and cash discounts, partial payments, mark-ups based on cost/selling price, and perishables.

BMGMT 139–Business Mathematics II
Cr: 2  Wkly hrs: 1 hours Lecture, 2 hours Lab
Successful completion of both BMGMT 138 & 139 is equivalent to BMGMT 140.
Prerequisite: MATH 090A with a grade of 2.0 or above OR satisfactory placement test score.

BMGMT 140–Business and Personal Mathematics
Cr: 5  Wkly hrs: 5 hours Lecture
Solving practical business problems in an applied context involving one-variable linear equations. Bank Account Reconciliation, Metric System, PV, FV, Chain Discounting, and Discount Notes are also covered.
Prerequisite: MATH 090B with a grade of 2.0 or above OR satisfactory placement test score.

*See course description for prerequisite.
Course Descriptions

BMGMT 145–Business Ethics
Cr: 2 Wkly hrs: 2 hours Lecture
Discover resources to engage in an ethical decision-making process. This course explores conflicts inherent in whistle blowing, ethical theory application, legal reforms, and potential workplace dilemmas.

BMGMT 146–Entrepreneurship–Financial Analysis
Cr: 2 Wkly hrs: 2 hours Lecture
An entrepreneurial course focusing on basic small business financial statements, and the use of ratio and trend analysis in managing the profitability, liquidity and efficiency of small business operations.

BMGMT 147–H.R. Interviewing/Risk Management
Cr: 2 Wkly hrs: 2 hours Lecture
An entrepreneurial course focusing on the development of interviewing questions, based on specific job criteria for a small business position, in the HR regulatory environment. A Mock Interview experience is provided.

BMGMT 148–Deadline and Project Management
Cr: 1 Wkly hrs: 1 hour Lecture
An entrepreneurial course introducing basic tips on how to manage multiple projects/deadlines, and interpret and draw basic project management PERT Diagrams and Gantt Charts.

BMGMT 149–Entrepreneurship–Marketing for Growth
Cr: 2 Wkly hrs: 2 hours Lecture
An entrepreneurial seminar covering marketing communication techniques critical for small business survival. Topics include: mission statements, word-of-mouth communication, advertising, press releases, public relations and social media.

BMGMT 170–Client/Customer Relations
Cr: 2 Wkly hrs: 2 hours Lecture
Provides customer relationship management (CRM) skill development to create an organizational culture that delivers superior quality services in challenging situations.

BMGMT 180–Marketing
Cr: 5 Wkly hrs: 5 hours Lecture
Marketing in the new millennium is all about building profitable customer relationships. This course explores consumer buying behavior, decisions as to which target markets the organization can strategically access and serve, and determinants of a compelling value position to attract, keep, and grow targeted customers. You'll never view commercials the same way again.

BMGMT 181–Principles of Sales
Cr: 5 Wkly hrs: 5 hours Lecture
Selling isn't what it used to be. Find out how being an information provider can help you better meet your customer's needs, improve opportunities for sales and support a customer relationship management program (CRM). This course provides an introduction into a number of effective selling techniques, information on handling objections, active listening and preparing that winning sales presentation.

BMGMT 182–Retail Management Essentials
Cr: 5 Wkly hrs: 5 hours Lecture
Fundamental knowledge and skills needed to effectively supervise or manage a retail business are learned including supply chain management, merchandising, customer service, technology and laws and regulations that can impact retailers.

BMGMT 183–Negotiations
Cr: 5 Wkly hrs: 5 hours Lecture
The fundamentals of effective Win-Win strategies and tactics imperative to getting what you want through the positive use of communication, information and negotiating power.

BMGMT 185–E-Business Strategies
Cr: 5 Wkly hrs: 5 hours Lecture
An interactive course balancing technical and strategic aspects of electronic business. Electronic platforms, payment systems, regulation, security and privacy issues addressed.

BMGMT 203–Small Business Planning & Management
Cr: 5 Wkly hrs: 5 hours Lecture
Discusses proper legal structures; financial competencies; and promotional strategies for start-up and existing businesses. A Business Plan is outlined. Prior accounting and marketing coursework or relevant business experience is strongly recommended.

BMGMT 247–H.R. Performance Reviews
Cr: 2 Wkly hrs: 2 hours Lecture
This entrepreneurial course outlines strategies on how to conduct objective performance review discussions that encourage an exchange of information that promote productivity. The HR legal environment and performance review form analysis is also covered.

BMGMT 282–Principles of Leadership/Management
Cr: 5 Wkly hrs: 5 hours Lecture
Exploration of the principles of management and strategies for effective leadership are integrated with an overview of management theory, and cross cultural workplace competencies. A Skill-Based Career Portfolio and Management Skills Profile are developed.

Business Technology

BSTEC 101–Adaptive Keyboarding–One-Handed
Cr: 3 Wkly hrs: 6 hours Lab
Students will learn and develop skill in alphanumeric keyboarding and 20-key data entry using a one-handed keyboard.

BSTEC 102–Screen Magnification
Cr: 1 Wkly hrs: 2 hours Lab
Students will acquire the skills and knowledge to access and manipulate text using screen magnification.

BSTEC 103–Braille Translation and Printing
Cr: 3 Wkly hrs: 6 hours Lab
Comprehensive introduction to translating an ink-print document into Braille using a Braille translation program and printing in Braille. Prerequisite: BSTEC 104.

BSTEC 104–Screen Reader Software Level 1
Cr: 3 Wkly hrs: 6 hours Lab
Introduction to the basics of voice-output software in a Windows environment. Instruction and use of basic keyboard commands to access and hear text voiced on the computer screen, JAWS or other screen reader technology. Prerequisite: Keyboarding skills.

BSTEC 105–Screen Reader Software Level 2
Cr: 3 Wkly hrs: 6 hours Lab
Instruction on producing, reading, and manipulating a word processing document using PC cursor commands to access menu bars and icons using JAWS or other screen reader technology. Prerequisite: BSTEC 104.

BSTEC 106–Screen Reader Software Level 3
Cr: 3 Wkly hrs: 6 hours Lab
The use of voice output to access and read graphic-based, mouse-driven environments, such as Windows desktop and web pages. Prerequisite: BSTEC 105.

BSTEC 107–Voice Recognition Level 1
Cr: 3 Wkly hrs: 6 hours Lab
Introduction to DragonDictate. Use basic voice-activated input commands to build voice files, dictate a simple written document, and correct errors.

BSTEC 108–Voice Recognition Level 2
Cr: 3 Wkly hrs: 6 hours Lab
Learn to format and manipulate a document using intermediate voice-activated commands. Prerequisite: BSTEC 107.

Cr: 3 Wkly hrs: 6 hours Lab
Basic Document Processing with speech technologies: Dragon, Windows Speech, etc. Substitutes for BSTEC 111, when BSTEC speed requirement not met. Prerequisite: Computer competency recommended.

BSTEC 110–Beginning Keyboarding
Cr: 3 Wkly hrs: 1 hour Lecture, 4 hours Lab
Learn and develop skill in alphanumeric keyboarding, 10-key data entry, basic computer functions, and basic document formatting.

BSTEC 111–Intermediate Keyboarding
Cr: 3 Wkly hrs: 1 hour Lecture, 4 hours Lab
Improve speed and accuracy of alphabetical and numerical data entry including business document formatting and 10-key pad skills using the touch system. Prerequisite: BSTEC 110 or equivalent.

BSTEC 112–Advanced Keyboarding
Cr: 3 Wkly hrs: 1 hour Lecture, 4 hours Lab
Student will improve both speed and accuracy of alphanumerical keyboarding skills using the touch system and gain training in keyboarding test techniques. Prerequisite: BSTEC 111 or permission of instructor.

BSTEC 113–Internet Basics
Cr: 1 Wkly hrs: 1 hours Lecture
Introduction to tools and strategies to communicate, explore, and retrieve information using the Internet resources. Some computer skills required. Text required.

COURSE NOTES: H=Humanities, S=Social Science, NS=Natural Science, SS=Skills Performance

*See course description for prerequisite.
BSTEC 114–MS Outlook
Cr: 1  Wkly hrs: 1 hours Lecture
Introduction to MS Outlook as an information manager. E-mail, files, contact lists, journal and calendar. Basic computer skills needed. Text required.

BSTEC 115–Electronic Communication
Cr: 2  Wkly hrs: 2 hours Lecture
Write effective e-mail, use instant messaging, understand confidentiality and legal aspects, and use professional English to write, edit, and proofread before hitting send.

BSTEC 116–MS Word
Cr: 1  Wkly hrs: 1 hours Lecture
Introduction to word processing with Microsoft Word for simple applications. Hands-on training. Textbook required. (Pass/No Credit or graded option)

BSTEC 117–MS Excel
Cr: 1  Wkly hrs: 1 hours Lecture
Introduction to spreadsheets using Microsoft Excel for simple applications. Hands-on training. Textbook required. (Pass/No Credit or graded option)

BSTEC 118–MS PowerPoint
Cr: 1  Wkly hrs: 1 hours Lecture
Understanding presentation software using Microsoft PowerPoint for simple applications. Hands-on training. Textbook required. (Pass/No Credit or graded option)

BSTEC 120–MS Transitions
Cr: 2  Wkly hrs: 2 hours Lecture
Transition Microsoft Office skills using illustrated approach to most significant changes in terminology, features, and platform (Word, Excel, Access and PowerPoint).

BSTEC 121–MS Publisher
Cr: 1  Wkly hrs: 1 hours Lecture
Hands-on approach for designing and creating newsletters, stationery, flyers, brochures, and business documents. Basic computer skills needed. Text required.

BSTEC 123–MS Word Specialist
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Specialist approach to MS Word. Topics: formatting, editing, tables, columns, mail merge, graphics, Web pages. Use Word in business and help prep for the MOS Cert. test. Prerequisite: CIS 150 and keyboarding by touch, or permission of instructor.

BSTEC 124–MS Excel Specialist
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Specialist approach to MS Excel. Formulas, logical functions, charts, hyperlinks, graphics, formatting, and managing data. Use Excel in business and help prep for the MOS test. Prerequisite: CIS 150 or permission of instructor.

BSTEC 125–Intro to MS Office PowerPoint
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Use MS Office PowerPoint to create and edit a presentation, augment with design, graphics, audio/video, and other formatting, and enhance slideshow techniques.

BSTEC 126–Integration of Software Applications
Cr: 2  Wkly hrs: 2 hours Lecture
Reinforce understanding and proficiency with MS Office, completing tasks in Word, Excel, Access and PowerPoint, and integrating between these applications. Prerequisite: CIS 150 or permission of instructor.

BSTEC 127–Microsoft Publisher Basics
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Use Publisher to create newsletters, stationery, flyers, brochures, and other business documents. Emphasis on problem-solving, design and proofreading/editing skills. Prerequisite: BSTEC 110 or equivalent proficiency.

BSTEC 130–Practical Accounting
Cr: 5  Wkly hrs: 5 hours Lecture
Introductory accounting course that includes accounting theory and practice as they apply to small business and service business situations.

BSTEC 132–Electronic Printing Calculators
Cr: 2  Wkly hrs: 1 hours Lecture, 2 hours Lab
Control and operation of electronic printing and display calculators. Emphasis on attaining minimum office proficiency.

BSTEC 133–Computerized Accounting
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Hands-on, realistic approach to computerized, integrated accounting for students who have a fundamental knowledge of accounting practices and principles. Prerequisite: BSTEC 130 or ACCT&201, or permission of instructor.

BSTEC 134–Payroll Accounting
Cr: 5  Wkly hrs: 5 hours Lecture
Designed to provide information and study regarding the benefits, taxes, payroll deductions, and employment accounting records incidental to the social security and tax program. Prerequisite: BSTEC 130 or ACCT&201 with a grade of 2.0 or higher.

BSTEC 135–Accounting Simulation/Serv Business
Cr: 1  Wkly hrs: 2 hours Lab
Simulated accounting application involving the accounting cycle for a service business. Prerequisite: BSTEC 130 or ACCT&201.

BSTEC 136–Accounting Simulation/Merch Business
Cr: 1  Wkly hrs: 2 hours Lab
Simulated accounting application involving the accounting cycle for a merchandising business. Prerequisite: BSTEC 130 or ACCT&201.

BSTEC 137–Accounting Simulation/Corporation
Cr: 1  Wkly hrs: 2 hours Lab
Simulated accounting application involving the accounting cycle for a corporation. Prerequisite: ACCT&202.

BSTEC 138–Payroll Simulation
Cr: 1  Wkly hrs: 2 hours Lab
Simulate the payroll accounting process using computer software to apply various workplace scenarios, including converting manual procedures to automated systems. Prerequisite: BSTEC 134.

BSTEC 141–QuickBooks
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
A hands-on, realistic approach to small business accounting using specialized QuickBooks accounting software and integration with Microsoft Word and Excel. Prerequisite: BSTEC 130 or ACCT&201 or permission of instructor.

BSTEC 142–SAGE 50 Accounting
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Automated approach to small business accounting using specialized “Sage 50” complete accounting software, and integration with Microsoft Word and Excel 2013. (Formerly OFTEC 138)
Prerequisite: BSTEC130 or ACCT&201 or permission of instructor.

BSTEC 145–Bus Writing/Grammar for the Workplace
Cr: 5  Wkly hrs: 5 hours Lecture
A workplace-centered approach to improving writing skills by reviewing grammar, language usage, and punctuation, and using effective composition to write and revise basic workplace/business documents, including memos, letters, and reports. Prerequisite: Appropriate placement score to enter ENGL 98: or 2.5 grade or higher in ENGL 91; or instructor permission.

BSTEC 150–Business English
Cr: 5  Wkly hrs: 5 hours Lecture
A business-centered approach to improving writing skills by reviewing grammar, language usage, structure, English mechanics, editing, proofreading, and spelling. Prerequisite: Assessment test at college level reading and writing or ENGL 099.

BSTEC 154–MS Access Specialist
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Specialist approach to MS Access: Design and development of databases. The creation and use of tables, various types of queries, forms and macros. (Formerly CIS 154)
Prerequisite: Skill with using Windows and Files is recommended.

BSTEC 155–Customer Service Information Age
Cr: 2  Wkly hrs: 2 hours Lecture
Students will develop skills using various research and technological tools to help identify quality care in a customer service environment. (Pass/No Credit)

BSTEC 160–General Office Procedures
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Introduction to the office environment, receptionist duties, equipment and supply control, bank services, payroll procedures, mail and resume/job hunting skills. Prerequisite: CIS 150 and BSTEC 110 or equivalent skills with permission of instructor.

BSTEC 220–Business Computer Applications
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Strategic use of software applications to support business activity with emphasis on tasks in business communications, accounting, business decision-making, and information management. Create professional documents, build effective business presentations, use...
problem-solving spreadsheet models and utilize database content to inform business decisions. Determine the appropriate software and integrate its use to produce effective business projects.

**Prerequisite:** Computer user familiar with the keyboard, browsing the internet, and common business software such as MS Office. Not a beginner level computer course. (Skills can be gained through personal use or formal coursework). This course meets a prerequisite for transfer to WWU’s bachelor in business program.

**BSTEC 223—MS Excel Advanced**

**Cr:** 4  
**Wkly hrs:** 3 hours Lecture, 2 hours Lab  
Includes: macros, templates, auditing tools, database tools, pivot tables. Prepares completers for personal and professional settings or certification exam.

**Prerequisite:** BSTEC 124 or pass MOS Excel proficiency or permission of instructor.

**BSTEC 229—Individual Taxation**

**Cr:** 5  
**Wkly hrs:** 5 hours Lecture  
Study of Federal Income taxation to develop basic understanding of tax preparation requirements for individuals.

**Prerequisite:** BSTEC 130 or ACCT 201.

**BSTEC 231—Practical Fund Accounting**

**Cr:** 5  
**Wkly hrs:** 5 hours Lecture  
Accounting and reporting concepts, standards and procedures applicable to state and local governments, the federal government, and not-for-profit institutions.

**Prerequisite:** ACCT 201 and ACCT 202 with a grade of 2.0 or higher.

**BSTEC 239—Taxation for Business**

**Cr:** 5  
**Wkly hrs:** 5 hours Lecture  

**Prerequisite:** BSTEC 130 or ACCT 201.

**BSTEC 240—Taxation Simulations**

**Cr:** 1  
**Wkly hrs:** 2 hours Lab  
Simulate tax filings for both individual and business entities. Demonstrate knowledge of tax laws and required forms.

**Prerequisite:** BSTEC 229 and BSTEC 239.

**BSTEC 250—Business Correspondence**

**Cr:** 5  
**Wkly hrs:** 5 hours Lecture  
Effective composition for business letters, memos, and reports. Includes writing style, tone, grammar, punctuation, and vocabulary.

**Prerequisite:** BSTEC 150, or permission of instructor; keyboarding ability.

**BSTEC 254—Document Formatting**

**Cr:** 3  
**Wkly hrs:** 1 hours Lecture, 4 hours Lab  
Develop industry-standard formatting and production skills with MS Word software by keying and formatting various forms of standard industry documents.

**Prerequisite:** BSTEC 123, keyboarding proficiency at 30+ NWAM or permission of instructor.

**BSTEC 255—Records and Database Management**

**Cr:** 5  
**Wkly hrs:** 5 hours Lecture  
A study of the principles and practices of records storage and retrieval using manual and automated database systems; includes ARMA rules and introduction to Access.

**Prerequisite:** CIS 150, keyboarding proficiency at 25 WAM, or permission of instructor.

**CHEM&110—Chemical Concepts w/Lab**

**Cr:** 6  
**Wkly hrs:** 5 hours Lecture, 2 hours Lab  
Introduces chemical principles in nonmathematical format intended for the liberal arts student. Topics include food, energy, household chemicals, and drugs.

**Prerequisite:** MATH 094 or permission of instructor.

**CHEM&121—Intro to Chemistry**

**Cr:** 6  
**Wkly hrs:** 5 hours Lecture, 2 hours Lab  
NS - Atomic structure, chemical bonding, quantitative chemical relationships, solutions, acids, bases, salts, buffers. An introduction to organic chemistry may be included. Primarily for ADN and Allied Health students.

**Prerequisite:** MATH 099 or MATH 99I with a 2.0 or above or satisfactory placement test score.

**CHEM&131—Intro to Organic/Biochem**

**Cr:** 6  
**Wkly hrs:** 5 hours Lecture, 2 hours Lab  

**Prerequisite:** Completion of CHEM& 121 with a 2.0 or better.

**CHEM 137—Chemistry of the Environment**

**Cr:** 5  
**Wkly hrs:** 3 hours Lecture, 4 hours Lab  
NS - The basic principles of chemistry emphasizing how they apply to the Earth, its major components, and its ecosystems.

**Prerequisite:** Completion of MATH 094 with a 2.0 or permission of the instructor.

**CHEM&139—General Chemistry Prep**

**Cr:** 5  
**Wkly hrs:** 5 hours Lecture  
NS - Prepares students for CHEM& 141 by introducing problem-solving techniques, the metric system, measurements, atomic structure, stoichiometry, solution chemistry, bonding, and molecular shape. NOT transferable for credit for science or engineering students.

**Prerequisite:** Math 99 or Math 99I with a 2.0 or above or satisfactory placement test score.

**CHEM&141—General Chemistry I**

**Cr:** 5  
**Wkly hrs:** 5 hours Lecture  
NS - Principles of chemistry including stoichiometry, enthalpy, protein theory, gasses, periodicity, chemical bonding.

**Prerequisite:** Chem 139 or Chem 121 with a 2.0 or above or successful completion of chemistry exam and Math 99 or Math 99I with a 2.0 or above or satisfactory placement test score.

**CHEM&142—General Chemistry II**

**Cr:** 5  
**Wkly hrs:** 5 hours Lecture  
NS - Principles of chemistry, including organic chemistry, gasses, solid and liquid states, solutions, kinetics, equilibrium, thermodynamics, acids and bases.

**Prerequisite:** CHEM 141 with a grade of 2.0 or higher.

**CHEM&143—General Chemistry III**

**Cr:** 3  
**Wkly hrs:** 3 hours Lecture  
NS - Principles of chemistry relating to acid/base equilibrium systems, heterogeneous equilibrium systems, transition metal chemistry, electrochemistry and nuclear chemistry.

**Prerequisite:** CHEM 142 with a grade of 2.0 or higher.

**CHEM&151—General Chem Lab I**

**Cr:** 1.5  
**Wkly hrs:** 3 hours Lab  
NS - Principles of chemistry, including organic chemistry, gasses, solid and liquid states, solutions, kinetics, equilibrium, thermodynamics, acids and bases.

**Prerequisite:** CHEM 141 with a grade of 2.0 or higher or concurrent enrollment in CHEM& 141.

**CHEM&152—General Chem Lab II**

**Cr:** 1.5  
**Wkly hrs:** 3 hours Lab  
NS - Experiments illustrating general principles and quantitative relationships in chemistry.

**Prerequisite:** CHEM 151, CHEM& 142 with a 2.0 or higher or concurrent enrollment in CHEM& 142.

**CHEM&153—General Chem Lab III**

**Cr:** 3  
**Wkly hrs:** 6 hours Lab  
NS - Volumetric and Gravimetric experiments in quantitative analysis using computer acquisition and treatment of data. Qualitative analysis of solutions containing selected metallic ions and polyatomic ions using wet chemical methods as well as a computer simulation.

**Prerequisite:** CHEM 152, CHEM& 143 with a grade of 2.0 or higher or concurrent enrollment in CHEM& 143.

**CHEM 199—Practicum**

**Cr:** 1-5  
**Wkly hrs:** 10 hours Lab  
Course can be offered as: CHEM 199/299.

A practical application in the working world of the basic theories studied in the above program or discipline.

**Prerequisite:** Permission of instructor.

**CHEM&241—Organic Chem I**

**Cr:** 4  
**Wkly hrs:** 4 hours Lecture  
NS - An introduction to the alkanes, alkenes, and alkynes. Includes discussions of structure, including stereochemistry, chemical and physical properties, and substitution/elimination reactions.

**Prerequisite:** CHEM 142 with a grade of 2.0 or higher.

**CHEM&242—Organic Chem II**

**Cr:** 4  
**Wkly hrs:** 4 hours Lecture  
NS - Introduction to NMR, mass spectroscopy and free radical mechanisms. The structure, synthesis and reactions of alcohols, ethers, conjugated unsaturated systems, aromatics, aldehydes, and ketones.

**Prerequisite:** CHEM& 241 with a grade of 2.0 or higher.
CHEM243–Organic Chem III
Cr: 4 Wkly hrs: 4 hours Lecture
NS - Structure, nomenclature, synthesis and reactions of aldehydes and ketones, carboxylic acids and derivatives, D-dicarbonyl compounds, amines, aryl halides, carbohydrates, lipids, and amino acids/proteins.
Prerequisite: CHEM 242.

CHEM251–Organic Chem Lab I
Cr: 1.5 Wkly hrs: 3 hours Lab
NS - Organic chemistry lab emphasizes mastery of techniques such as sample handling, filtration, measuring physical constants, recrystallization, extraction, GC, polarimetry, and refractometry.
Prerequisite: CHEM 241 or concurrent enrollment.

CHEM252–Organic Chem Lab II
Cr: 2 Wkly hrs: 4 hours Lab
NS - Organic chemistry lab emphasizes techniques such as simple, fractional, steam, and reduced pressure distillation; thin-layer, column, high-pressure liquid chromatography, and IR/NMR spectroscopy.
Prerequisite: CHEM 251, or CHEM&E 242 or concurrent enrollment in CHEM&E 251.

CHEM253–Organic Chem Lab III
Cr: 3 Wkly hrs: 6 hours Lab
NS - Includes organic qualitative analysis, an oral presentation on a journal article, and an independent synthesis project.
Prerequisite: CHEM 252, CHEM&E 243, or concurrent enrollment in CHEM&E 243.

Communication Studies
CMST210–Introduction to Comm
Cr: 5 Wkly hrs: 5 hours Lecture
H - The purpose of this course is to help students understand communication theory and practice in organizations and how and when to take effective action in their organizations. Topics addressed in the course include organizational culture, organizational climate, diversity, and leadership in the context of organizational communication.

CMST242–Intro to Comm in Organizations
Cr: 5 Wkly hrs: 5 hours Lecture
H - To examine how popular communication exists as a part of everyday life, and critically analyze the rhetoric of popular artifacts.
Prerequisite: ENGL&101 with a grade of 2.0 or above.

CMST253–Interpersonal Communication
Cr: 5 Wkly hrs: 5 hours Lecture
H - Students will explore the complexity of communication in everyday life. This course will introduce students to major concepts and theories about face-to-face interaction. Students will learn how communication functions in a variety of contexts and relationships, and will improve their understanding of psychological, sociological, and relational factors that influence their communication with others. (Formerly SPCH 152)
Prerequisite: ENGL&101 with a grade of 2.0 or above.

CMST260–Public Speaking
Cr: 5 Wkly hrs: 5 hours Lecture
H - Principles and techniques of preparing and delivering effective public speeches to inform, analyze, and persuade. (Formerly SPCH 151B)

CMST275–Introduction to Popular Communication
Cr: 5 Wkly hrs: 5 hours Lecture
H - Students will explore the complexity of popular communication and the role it plays in society. Emphasis is placed on the study of popular culture, gendered language, and performance of gender in various communicative contexts.
Prerequisite: ENGL&101 with a grade of 2.0 or above.

CMST280–Ethical and Legal Principles of Media
Cr: 5 Wkly hrs: 5 hours Lecture
H - Ethical and legal principles studied as they apply to media. (Formerly HUMAN 293)

Computer Information Systems
CIS 100–Computer Literacy for Online Learning
Cr: 2 Wkly hrs: 2 hours Lecture
This class will help prepare students for success in online learning by focusing on basic computer literacy and e-learning environments.

CIS 101–Computer Literacy Assessment
Cr: 1 Wkly hrs: 2 hours Lab
Demonstrate mastery of basic computer use, file management, word processing, spreadsheets, the World Wide Web, and e-mail through assessment tests. (Pass/No Credit)

CIS 107–Introduction to Personal Computers
Cr: 1 Wkly hrs: 1 hours Lecture
Introduction to personal computers for first time users. Computer terminology, PC hardware options, windows operating systems, basic software techniques and basic Internet use.

CIS 110–Information Systems Concepts
Cr: 5 Wkly hrs: 5 hours Lecture
Explore the fundamentals of information processing. Topics include: hardware, software, networking, the Internet, programming, and databases.
Prerequisite: Basic knowledge of Microsoft Windows XP or later. Competent keyboard skills.

CIS 111–Introduction to Operating Systems
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
An introduction to computer science theory and common operating systems found in business and home environments, like Windows and Linux, with hands-on activities.
Prerequisite: CIS 110 or concurrent enrollment or permission of instructor. Basic knowledge of Windows XP or later. Competent keyboarding skills.

CIS 114–Introduction to HTML
Cr: 1 Wkly hrs: 1 hours Lecture
Learn to use HTML tags to create web pages in accordance with XHTML specifications. Create links, format text, create bulleted and numbered lists, insert images and background color/images, produce image maps, create forms, and understand multimedia possibilities. (Pass/No Credit)
Prerequisite: Basic knowledge of Microsoft Windows 95 or later. Competent keyboarding skills.

*See course description for prerequisite.
CIS 115–Introduction to the Internet
Cr: 3  Wkly hrs: 2 hours Lecture, 2 hours Lab
Explore various services and features of the Internet beyond just surfing like email, FTP, search engines, HTML, online security, and WiFi.

CIS 116–Intro to MS Visio
Cr: 1  Wkly hrs: 1 hours Lecture
Introduction to Microsoft Visio to create flow diagrams, basic organizational charts, and network diagrams. Knowledge of basic computer skills suggested. Text required.

CIS 123–Systems Architecture and Logic
Cr: 5  Wkly hrs: 5 hours Lecture
Provide logic and computational model for small and large computer systems and networks.
Prerequisite: CIS 110 and MATH 090A.

CIS 124–Logic and Pattern Matching
Cr: 5  Wkly hrs: 5 hours Lecture
Students will evaluate mathematical expressions in computer numbering systems, evaluate propositional logic using sets and Boolean circuits, and search and manipulate strings using patterns with regular expressions to support programming and network environments. (Formerly CIS 202)
Prerequisite: MATH 090B within the last 6 years with a grade of 2.0 or above or satisfactory placement test score.

CIS 140–Exploring Coding
Cr: 2  Wkly hrs: 1 hours Lecture, 2 hours Lab
An exploration of computer programming for non-programmers presented in a fun, engaging, and visual format.

CIS 141–Programming Concepts
Cr: 5  Wkly hrs: 5 hours Lecture
An introduction to programming concepts.

CIS 142–Java I Introduction to OOP
Cr: 5  Wkly hrs: 5 hours Lecture
An introduction to applications development for Windows and the Web using Java applications and applets. (Formerly CMPTR 146)
Prerequisite: CIS 141 with a grade of 2.0 or above, or permission of instructor and concurrent enrollment in CIS 200.

CIS 143–Java II Fundamentals of OOP
Cr: 5  Wkly hrs: 5 hours Lecture
Develops fundamental concepts and techniques for analysis, design, and implementation of computer programs using an object-oriented language. Includes graphical user interfaces, event-driven programming, recursive techniques, and data structures. (Formerly CMPTR 147)
Prerequisite: CIS 142 with a grade of 2.0 or above, or permission of instructor and concurrent enrollment in CIS 200.

CIS 145–Introduction to C Language
Cr: 5  Wkly hrs: 5 hours Lecture
Writing C programs utilizing programming concepts obtained from CIS 141. Introducing C syntax for program control, functions, arrays, pointers, and string manipulation.
Prerequisite: CIS 141 with a grade of 2.0 or above, or permission of instructor and concurrent enrollment in CIS 200.

CIS 150–Survey of Computing
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Learn basic concepts of word processing, spreadsheet processing, Internet, operating systems, and hardware using Internet and Computing Core Certification standards.

CIS 155–Web Development I
Cr: 5  Wkly hrs: 5 hours Lecture
Students are introduced to HTML5 elements and CSS3 to develop simple Web pages that integrate responsive (mobile) design, media, tables, and forms to produce consistent, navigable Web sites.
Prerequisite: Basic computer use.

CIS 156–Multimedia for the Web
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Students will explore how digital multimedia is optimized to integrate into a HTML5 web page based on current standards and technologies. Managing and manipulating fonts, images, audio, video, and animation formats and codecs, and issues with hosting and legal considerations will also be covered.
Prerequisite: None, though proficiency with HTML is helpful.

CIS 160–User Interface Design
Cr: 2  Wkly hrs: 2 hours Lecture
Students will be introduced to designing and developing user interfaces based on design principles and design elements.
Prerequisite: CIS 155 or (CIS 114 and CIS 141).

CIS 176–PC Technical Support Essentials
Cr: 3  Wkly hrs: 2 hours Lecture, 2 hours Lab
Fundamentals of hardware, operating systems, troubleshooting and customer interactions for the personal computing environment. Can be taken concurrently with CIS 276. This course helps prepare students for the CompTIA A+ part 1 (220-701 Essentials) certification exam.
Prerequisite: Working knowledge of MS Windows operating systems (file management, managing multiple windows and tasks).

CIS 182–Networking Concepts
Cr: 5  Wkly hrs: 5 hours Lecture
This course is designed to introduce LAN/WAN terminology, design, topologies, protocols, various network hardware components, the TCP/IP network protocol, software, cabling and connectivity.

CIS 190–Information System Project Management
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
The student will learn, apply, analyze and evaluate significant information technology projects from initiation through closing.

CIS 200–Programming Laboratory
Cr: 1  Wkly hrs: 2 hours Lab
Students meet in lab to design, develop, and test programs assigned in the programming course being taken concurrently. May be repeated up to 3 credits. (Formerly CMPTR 200)
Prerequisite: Concurrent enrollment in CIS 142, or CIS 143 or 145.

CIS 205–Web Transport Languages
Cr: 2  Wkly hrs: 2 hours Lecture
Introduction to web transport languages including XML and JSON, and the use of HTTP protocols for data transport in web services. Students will create and use data formats for data transport and use in web services.
Prerequisite: CIS 141 with grades of 2.0 or better, CIS 155 with grades of 2.0 or better

CIS 210–SQL
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Introduction to structured query language (SQL) used by most relational databases. Students will create, manipulate, and query data using DDL and DML. This class is intended for students with fundamental skills in computer programming. Students are strongly encouraged to contact faculty before enrolling in this class to review the prerequisite skills and knowledge needed for a successful experience. The prerequisite skills may be obtained by taking CIS 141.

CIS 212–Windows for Professionals
Cr: 3  Wkly hrs: 2 hours Lecture, 2 hours Lab
Offers the critical information students need to successfully support the current Microsoft Windows desktop operating system in a business.

CIS 213–Mac OS X for Professionals
Cr: 3  Wkly hrs: 2 hours Lecture, 2 hours Lab
This course will prepare students for successful achievement of the Apple Certified Support Professional 10.6 Certification.

CIS 219–Introduction to ASP.NET
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Students create interactive and dynamic database-driven Web applications using ASP.NET, C#, and the .NET Framework. This class is intended for students with fundamental skills in computer programming, HTML, and SQL. Students are strongly encouraged to contact faculty before enrolling in this class to review the prerequisite skills and knowledge needed for successful experience.
Prerequisite: CIS 142, CIS 155, and CIS 210, all with a 2.0 or higher, or instructor permission.

CIS 226–Information System Security I
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
The student will develop and apply knowledge and skill in implementing and maintaining the components of organizational security.

CIS 240–Microsoft LAN Administration I
Cr: 5  Wkly hrs: 4 hours Lecture, 2 hours Lab
Introduces the student to Windows Server 2012 Active Directory Configuration, preparing the student for the MCITP exam-Exam 70-640.

CIS 242–Microsoft LAN Administration II
Cr: 5  Wkly hrs: 4 hours Lecture, 2 hours Lab
Introduces the student to Windows Server 2012 Active Directory Configuration, preparing the student for the MCITP exam-Exam 70-642.

CIS 243–Java III - Java Certification
Cr: 4  Wkly hrs: 2 hours Lecture, 4 hours Lab
Review the details of the Java language as covered in the Java Certification Oracle Certified Associate Exam 1Z0-808 and Java Certification Oracle Certified Professional Exam 1Z0-809. Topics covered include Core Java APIs, Class Design, Exceptions, Generics, Lambdas, Streams, I/O, Concurrency. Prepares students for the Oracle Certification Exams 1Z0-808 and 1Z0-809. Students are required to take and pass one of the two exams.
Prerequisite: CIS 143 or CIS 143 with grade of 2.0 or better, or Instructor Permission.

COURSE NOTES: H=Humanities, H/S=Humanities/Skills Performance
NS=Natural Science, SS=Social Science

*See course description for prerequisite.
CIS 245–Microsoft LAN Administration III
Cr: 5  Wkly hrs: 4 hours Lecture, 2 hours Lab
Learn to manage the three most common server-side applications: database, messaging and Web. Installation, configuration, base lining, performance testing and troubleshooting.

CIS 247–Certified Ethical Hacker
Cr: 5  Wkly hrs: 4 hours Lecture, 2 hours Lab
Students learn to use current security systems. Students will learn perimeter defenses, how to scan networks for attacks, how intruders escalate privileges and what steps can be taken to secure a system. CIS 111 and CIS 182 with a 2.0 or higher, or instructor permission.

CIS 249–Computer Hacking Forensic Investigator
Cr: 5  Wkly hrs: 4 hours Lecture, 2 hours Lab
Students learn to use current computer forensic procedures and tools. Students will learn the techniques and processes for detecting cybercrime intrusions, implement the steps to properly extract and evaluate evidence, and conduct system audits to prevent future cybercrimes. CIS 111 and CIS 182 with a 2.0 or higher, or instructor permission.

CIS 255–Web Scripting
Cr: 5  Wkly hrs: 5 hours Lecture
Students build upon the skills of Web Development I to introduce JavaScript, libraries, and simple server-side processing within the HTML5 framework.
Prerequisite: CIS 141 and CIS 155.

CIS 258–Web 2.0
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
Students will focus on emerging trends in Web 2.0 technologies like search engine optimization, analytics, Web APIs, adaptive/responsive Web sites, and content management systems. Students will work in teams to explore and demonstrate key Web 2.0 technologies and concepts.
Prerequisite: CIS 155 - Web Development I

CIS 261–Operating Systems/Unix
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
An introduction to the Unix/Linux operating system and Unix/Linux system administration. Prepares student for CompTIA Linux+ Part A exam.
Prerequisite: CIS 111 and 141 with a grade of 2.0 or above or permission of instructor.

CIS 262–Unix Administration
Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab
A practice-based course to prepare students to administer UNIX-based systems in a secure, networked, client-server environment. Prepares student for CompTIA Linux+ Part B exam.
Prerequisite: CIS 261 or permission of instructor.

CIS 270–Cisco I
Cr: 5  Wkly hrs: 4 hours Lecture, 2 hours Lab
The student will be introduced to and understand the development in the design and installation of local area networks to ensure optimal throughput.

CIS 271–Cisco II
Cr: 6  Wkly hrs: 5 hours Lecture, 2 hours Lab
An introduction to Cisco basic router configuration for local area networks.
Prerequisite: CIS 270

CIS 272–Cisco III
Cr: 4  Wkly hrs: 4 hours Lecture
This course will enable the student to implement a switched network and a basic wireless network.
Prerequisite: CIS 270

CIS 273–Cisco IV
Cr: 4  Wkly hrs: 4 hours Lecture
This course will enable the student to configure Wide Area Networks (WAN) and IP Addressing Services on Cisco routers and incorporate network policies using ACLs.
Prerequisite: CIS 271 and CIS 272.

CIS 274–CCNA Security
Cr: 5  Wkly hrs: 4 hours Lecture, 2 hours Clinic
This course will prepare students for successfull achievement of the Cisco Certified Network Associate (CCNA) Security certification.
Prerequisite: CIS 271 or permission of the instructor

CIS 276–PC Technical Support Practical Skills
Cr: 3  Wkly hrs: 2 hours Lecture, 2 hours Lab
Prerequisite: Knowledge, skills and experience contained in the CIS 176 course. Can be taken concurrently.

CIS 285–Object Oriented Programming with C++
Cr: 5  Wkly hrs: 5 hours Lecture
Writing object oriented programs utilizing C++. Introduces concepts of data abstraction, data classes, and polymorphism.
Prerequisite: CIS 142 or CIS 145 with a grade of 2.0 or above, or permission of instructor.

CIS 298–CIS Practicum
Cr: 1-3  Wkly hrs: 9 hours Clinic
A capstone course providing in-depth hands-on experience in one of the seven areas of computer information systems: networking, hardware, security, web, project management, database, or programming. May be repeated for a maximum of three credits.
Prerequisite: Instructor permission.

CS 141–Computer Science I Java
Cr: 5  Wkly hrs: 5 hours Lecture
NS - Problem solving methodology and basic programming abilities and concepts in JAVA. (Formerly CS 176/MATH 176)
Prerequisite: MATH 141 with a grade of 2.0 or higher (MATH 142 with a grade of 2.0 or higher is recommended).

CS 143–Computer Science II Java
Cr: 5  Wkly hrs: 5 hours Lecture
NS - Solving problems using object-oriented programming techniques and basic data structures; design and analysis of algorithms particularly in the context of searching and sorting. (Formerly CS 177/MATH 177)
Prerequisite: CS 141.

CS 170–Applications in Computer Science
Cr: 1-5  Wkly hrs: 5 hours Lecture
NS - Application of concepts in introductory Computer Science.
Prerequisite: CS 141 or permission of instructor.

CS 210–Introduction to Discrete Mathematics
Cr: 5  Wkly hrs: 5 hours Lecture
NS - Basic logic, number theory, sequences and series, induction, permutations, combinations, probability, and binomial theorem, graphs and trees. (Same as MATH 210)
Prerequisite: MATH 142 or MATH 144 with grade of 2.0 or better.

CS 240–Discrete Structures
Cr: 5  Wkly hrs: 5 hours Lecture
NS - Fundamentals of logic and writing proofs, sets, functions, number theory, combinatorics, probability, relations, graphs and trees. (Same as MATH 240)
Prerequisite: MATH 163 with grade of 2.0 or better.

Cooperative Education

CO-OP 111–Cooperative Education Seminar I
Cr: 2  Wkly hrs: 2 hours Lecture
Course introduces application of critical job skills to support success in co-op work experience.
Prerequisite: Concurrent enrollment with first quarter Co-Op Work Experience. Call 360.475.7480 or email cooped@olympic.edu to arrange.

CO-OP 120–Transition to Work
Cr: 3  Wkly hrs: 2 hours Lecture, 3 hours Clinic
A work-based learning course that prepares students for employment.

CO-OP 121–Cooperative Work Experience
Cr: 1-3  Wkly hrs: 39 hours Clinic
Course can be offered as: CO-OP 121/122/123/124. Contracted work experience coordinated with employer, faculty, and student to meet learning objectives specific to the work site and occupation/trade.
Prerequisite: CO-OP seminar concurrent with first quarter work experience.

CO-OP 189A–Community Volunteer Service
Cr: 2  Wkly hrs: 6 hours Clinic
Course can be offered as: CO-OP 189A/189B/189C. The Community Volunteer Service course utilizes Cooperative Education to enable students to experience volunteerism as a central component of life and career planning.

CO-OP 221–Cooperative Work Experience
Cr: 1-3  Wkly hrs: 39 hours Clinic
Course can be offered as: CO-OP 221/222/223/224. Contracted work experience coordinated with employer, faculty and student to meet specific learning objectives for second year co-op students.
Prerequisite: Permission of cooperative education coordinator and current enrollment in CO-OP Seminar.

CO-OP 225–Cooperative Work Experience
Cr: 1-3  Wkly hrs: 39 hours Clinic
Course can be offered as: CO-OP 225/226/227/228. Contracted work experience coordinated with employer, faculty and student to meet specific learning objectives for second year co-op students.
Prerequisite: Permission of cooperative education coordinator and current enrollment in CO-OP Seminar.

CO-OP 289A–Community Volunteer Service
Cr: 3  Wkly hrs: 9 hours Clinic
Course can be offered as: CO-OP 289A/289B/289C. The Community Volunteer Service course utilizes Cooperative Education to enable students to experience volunteerism as a central component of life and career planning.
Cosmetology Descriptions

COS 101—Professional Career
Cr: 2 Wkly hrs: 2 hours Lecture
Students are exposed to Washington State Cosmetology laws, rules and regulations, career opportunities, business skills, professional image, communication and the history of Cosmetology.
Prerequisite: None

COS 102—Cosmetology General Sciences
Cr: 2 Wkly hrs: 2 hours Lecture
Emphasis is placed on the skills and knowledge of the general sciences necessary for the field of cosmetology.
Prerequisite: None

COS 103—Hair Care, Hairstyling & Haircutting
Cr: 3 Wkly hrs: 3 hours Lecture
Technical principles of hair design and care of the hair and scalp. The foundations of the art of hairstyling to include arranging, styling, and creative design. Foundations of haircutting techniques to perform haircuts to meet industry standards.
Prerequisite: None

COS 104—Chemical Texture Services
Cr: 2 Wkly hrs: 2 hours Lecture
This course covers main concepts of chemical texture services to include perming, chemical relaxing and curl reformation.
Prerequisite: None

COS 105—Hair Color
Cr: 2 Wkly hrs: 2 hours Lecture
Introduction to basic color theory and technique utilizing the law of color to artificially pigment the hair or remove color pigment.
Prerequisite: Completion of COS 104 or concurrent enrollment in COS 103 and COS 123.

COS 114—Advanced Chemical Texture Services
Cr: 2 Wkly hrs: 2 hours Lecture
Introduction to basic color theory and technique utilizing the law of color to artificially pigment the hair or remove color pigment.
Prerequisite: Completion of COS 104 or concurrent enrollment in COS 103 and COS 123.

COS 115—Intermediate Hair Color
Cr: 2 Wkly hrs: 2 hours Lecture
Building on basic hair color techniques to increase skill level of dimensional color and creative color placement and to introduce color correction.
Prerequisite: Completion of or concurrent enrollment in COS 103 and COS 123.

COS 120—Cosmetology Skin Care
Cr: 2 Wkly hrs: 2 hours Lecture
Principles of esthetics including skin diseases and disorders, analysis and care of the skin and temporary hair removal.
Prerequisite: None

COS 121—Facial Makeup
Cr: 1 Wkly hrs: 1 hour Lecture
Basic makeup application techniques implementing cosmetic color theory concepts.
Prerequisite: None

COS 123—Advanced Haircutting
Cr: 2 Wkly hrs: 2 hours Lecture
Advanced haircutting techniques combining multiple haircutting elements to increase skill level in subject matter mastery.
Prerequisite: Completion of or concurrent enrollment in COS 103 and COS 113.

COS 130—Nail Care
Cr: 1 Wkly hrs: 1 hours Lecture
Fundamental principles of nail care to include structure, growth, diseases and disorders to safely perform basic manicure and pedicure services.
Prerequisite: None

COS 135—Wigs, Braiding/Extensions
Cr: 1 Wkly hrs: 1 hours Lecture
Braiding, artificial hair applications using proper safety and removal techniques, the fitting, styling and care of wigs.
Prerequisite: None

COS 151—Esthetics Lab Clinic I
Cr: 12 Wkly hrs: 24 hours Lab
Students perform hands on practical experience using knowledge and skills achieved from related instruction.
Prerequisite: None

COS 152—Esthetics Lab Clinic II
Cr: 13 Wkly hrs: 26 hours Lab
Students perform salon services with supervision, gaining hands on practical experience working in a training salon environment using knowledge and skills achieved from related instruction.
Prerequisite: Completion of COS 151.

COS 153—Esthetics Lab Clinic III
Cr: 13 Wkly hrs: 26 hours Lab
Students perform salon services with supervision, gaining hands on practical experience working in a training salon environment using knowledge and skills achieved from related instruction.
Prerequisite: COS 152.

COS 154—Esthetics Lab Clinic IV
Cr: 13 Wkly hrs: 26 hours Lab
Students perform salon services with supervision, gaining hands on practical experience working in a training salon environment using knowledge and skills achieved from related instruction.
Prerequisite: COS 153.

COS 155—Esthetics Lab Clinic V
Cr: 13 Wkly hrs: 26 hours Lab
Students perform salon services with supervision, gaining hands on practical experience working in a training salon environment using knowledge and skills achieved from related instruction.
Prerequisite: COS 154.

COS 160—Introduction to Esthetics
Cr: 3 Wkly hrs: 3 hours Lecture
Students are exposed to Washington State Esthetic laws, rules and regulations, career opportunities, business skills, professional image, communication and the history of Esthetics.
Prerequisite: BMGMT 140, BSTEC 145 or ENGL&101, OLRM 220.

COS 161—Esthetics General Sciences I
Cr: 5 Wkly hrs: 5 hours Lecture
Emphasis is placed on the skills and knowledge of the general sciences necessary for the field of Esthiology.
Prerequisite: None

COS 162—Esthetics General Sciences II
Cr: 3 Wkly hrs: 3 hours Lecture
Instruction in the nature of electricity, electrotherapy, light therapy and their uses in Esthetics. Macro and micronutrients, vitamins and minerals and how nutrition relates to healthy skin.
Prerequisite: COS 160, COS 161, COS 171, COS 181.

COS 171—Esthetics Skin Care I
Cr: 5 Wkly hrs: 5 hours Lecture
Instruction in appearance and sanitary conditions of the treatment room, facial treatments, skin analysis, product selection and first aid.
Prerequisite: None

COS 172—Esthetics Skin Care II
Cr: 5 Wkly hrs: 5 hours Lecture
Instruction in appearance and sanitary conditions of the treatment room, facial treatments, skin analysis, product selection and first aid.
Prerequisite: None

COS 180—Esthetics Business Practices
Cr: 2 Wkly hrs: 2 hours Lecture
Preparation for Washington State written and practical skills exam. Instruction on resume writing, upselling services, product revenue and small business ownership. Student will demonstrate skill and proficiency prior to completion of the program.
Prerequisite: COS 162, COS 172, COS 182.

COS 181—Esthetics Lab Clinic I
Cr: 6 Wkly hrs: 12 hours Lab
Students perform esthetic services with supervision, gaining hands on practical experience working in a training spa environment using knowledge and skills achieved from related instruction.
Prerequisite: None

COS 182—Esthetics Lab Clinic II
Cr: 9 Wkly hrs: 18 hours Lab
Students perform esthetic services with supervision, gaining hands on practical experience working in a training spa environment using knowledge and skills achieved from related instruction.
Prerequisite: COS 160, COS 161, COS 171, COS 181.

COS 183—Esthetics Lab Clinic III
Cr: 8 Wkly hrs: 16 hours Lab
Students perform esthetic services with supervision, gaining hands on practical experience working in a training spa environment using knowledge and skills achieved from related instruction.
Prerequisite: COS 162, COS 172, COS 182.

*See course description for prerequisite.
COS 200–Methods of Teaching & Learning
Cr: 3 Wkly hrs: 3 hours Lecture
This course for career education instructors covers teaching methods and classroom preparation to include: Qualities of the career education instructor, teaching plan and learning environment, teaching study and testing skills, basic learning styles and principles, methods of teaching and communicating confidently.
Prerequisite: Instructor permission.

COS 201–Classroom Mgmt & Supervision
Cr: 3 Wkly hrs: 3 hours Lecture
This course for career education instructors covers effective presentations, effective classroom management and supervision and achieving learner results.
Prerequisite: Instructor permission.

COS 202–Program Development & Lesson Planning
Cr: 2 Wkly hrs: 2 hours Lecture
This course for career education instructors covers program and curriculum development, lesson planning, educational aids and technology in the classroom, assessing progress and advising students.
Prerequisite: Instructor permission.

COS 203–Basic Teaching Skills
Cr: 3 Wkly hrs: 3 hours Lecture
This course covers the student salon, performance goals, teamwork and record keeping requirements.
Prerequisite: Instructor permission.

COS 204–Professional Development
Cr: 3 Wkly hrs: 3 hours Lecture
This course covers educational relationships, conditions for learning, integrating humor in the classroom and creativity in instruction, teaching success strategies for a successful career, teamwork, and evaluating professional performance.
Prerequisite: Instructor permission.

COS 211–Braiding and Extension Techniques
Cr: 1 Wkly hrs: 1 hour Lecture, 2 hours Lab
Designed to introduce a variety of methods of hair additions and extensions.
Prerequisite: Proof of Current Cosmetology License or Proof of Cosmetology Student Enrollment in a Licensed School.

COS 225–Advanced Hair Coloring
Cr: 2 Wkly hrs: 2 hours Lecture
Color correction and advanced hair color methods to expand skill level and ability to combine multiple hair color applications.
Prerequisite: Concurrent enrollment in COS 105 and COS 115.

COS 231–Business Skills I
Cr: 1 Wkly hrs: 1 hour Lecture
Preparing for and seeking employment by creating a resume, cover letter and practicing interviewing skills to assist in obtaining a position in the field of cosmetology.
Prerequisite: None

COS 232–Business Skills II
Cr: 1 Wkly hrs: 1 hour Lecture
Salon business and professionalism, business planning, marketing and retail.
Prerequisite: Completion of COS 231.

COS 240–State Board Preparation
Cr: 4 Wkly hrs: 4 hours Lecture
Preparation for Washington State written and practical skills exam and review of basic, intermediate and advanced technical skills taught in previous quarters. Student will demonstrate skill and proficiency prior to completion of the program.
Prerequisite: None

COS 251–Cadet Clinic Lab I
Cr: 4 Wkly hrs: 8 hours Lab
Student performs applications of teaching methods while performing student teaching. Student will gain hands on practical experience working in a training salon/spa environment using knowledge and skills achieved from related instruction.
Prerequisite: Instructor permission.

COS 252–Cadet Clinic Lab II
Cr: 4 Wkly hrs: 8 hours Lab
Student performs applications of teaching methods while performing student teaching. Student will gain hands on practical experience working in a training salon/spa environment using knowledge and skills achieved from related instruction.
Prerequisite: Instructor permission.

COS 253–Cadet Clinic Lab III
Cr: 5 Wkly hrs: 10 hours Lab
Student performs applications of teaching methods while performing student teaching. Student will gain hands on practical experience working in a training salon/spa environment using knowledge and skills achieved from related instruction.
Prerequisite: Instructor permission.

COS 254–Cadet Clinic Lab IV
Cr: 5 Wkly hrs: 10 hours Lab
Student performs applications of teaching methods while performing student teaching. Student will gain hands on practical experience working in a training salon/spa environment using knowledge and skills achieved from related instruction.
Prerequisite: Instructor permission.

CulinArts

CULIN 101–Culinary Techniques
Cr: 6 Wkly hrs: 4 hours Lecture, 4 hours Lab
Working in the commercial kitchen: equipment, knife skills, and food product identification.
Prerequisite: Advisor signature and Food Handler’s Permit.

CULIN 103–Food Production I
Cr: 6 Wkly hrs: 3 hours Lecture, 6 hours Lab
Prepare meats, seafood, poultry, soups, vegetables, starches and basic desserts for restaurant and commercial food service.
Prerequisite: Kitsap Food Workers Health Card/ advisor signature.

CULIN 104–Dining Room Service
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
How to properly serve food to guests in a restaurant. For potential and actual waiters/waitresses and also managers or supervisors who train the servers.
Prerequisite: Instructor signature.

CULIN 105–ServSafe Food Safety Training
Cr: 2 Wkly hrs: 2 hours Lecture
The ServSafe course provides accurate up-to-date information for all levels of employees on all aspects of handling food; from receiving and storing to preparing and serving.
Prerequisite: Instructor signature.

CULIN 120–Sustainable Food Sys, Kitsap County
Cr: 2 Wkly hrs: 2 hours Lecture
Sustainable Kitsap County is a comprehensive tour of food establishments and their practices as related to the food system of Kitsap County: the family farm/homestead, Barner property on Olympic College campus, bringing food/related items to market, Farmers Markets, grocery/Co-op stores, local certified kitchens, Kitsap Health District, Kitsap Poultry Grocers Co-op, Puget Sound Meat Producers Co-op, local seafood purveyors, foraging organizations, and gleaning programs.
Prerequisite: None

CULIN 121–Food Production II
Cr: 6 Wkly hrs: 2 hours Lecture, 8 hours Lab
Classic food preparation techniques: saucers, sauces, fabrication of poultry, seafood and meat.
Prerequisite: Cooks Helper Certificate.

CULIN 122–Garde Manger
Cr: 3 Wkly hrs: 1 hour Lecture, 4 hours Lab
Develop skills producing a variety of cold food products. Prepare items appropriate for buffet presentation including decorative pieces.
Prerequisite: Certificate/Prep Cook.

CULIN 123–International Cuisine
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
History of various countries’ cuisine covering major food sources, cooking methods and influences on cuisine.
Prerequisite: Permission of instructor.

CULIN 125–Applied Food Service Computation
Cr: 2 Wkly hrs: 2 hours Lecture
Importance and relevance of math in the food service industry. Learn, understand and use math to meet goals of becoming a chef, baker, manager or other food service professional.

CULIN 126–Commercial Baking I
Cr: 3 Wkly hrs: 1 hour Lecture, 4 hours Lab
Applying fundamentals of baking science to the preparation of a variety of products.
Prerequisite: Certificate/Prep Cook.

CULIN 131–Food Production III
Cr: 6 Wkly hrs: 3 hours Lecture, 6 hours Lab
This course will cover creation of a menu from start to finish, breakfast to dinner.
Prerequisite: Permission of instructor.

CULIN 132–Quantity Food Purchasing
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
The operations of purchasing and receiving including invoicing, pricing, product costing, and inventories to promote fiscal controls.
Prerequisite: Permission of instructor.

CULIN 134–Nutrition for Culinary Professionals
Cr: 3 Wkly hrs: 3 hours Lecture
For students in the culinary program; this course is for those needing to use nutritional principles in menu and recipe planning.

CULIN 200–Food Production IV
Cr: 3 Wkly hrs: 1 hours Lecture, 4 hours Lab
Create menus, buffets, and specialty dishes for fine dining from preparation to order (including ala carte) and determine entire cost.
Prerequisite: Permission of instructor.

*See course description for prerequisite.
**Digital Media Arts**

**DMA 120–Beginning Photoshop**
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
Students learn basic skills of Photoshop, an image manipulation software tool for creative and technical use.

**DMA 136–Beginning Digital Photography**
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
An introduction to basic digital photography, including historical background, equipment, shooting techniques, lighting, scanning, manipulation, and output (web or print).

**DMA 220–Intermediate Photoshop**
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
Students learn advanced creative aspects and skill sets of Photoshop, an image manipulation software tool.

**DMA 236–Intermediate Digital Photography**
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
Intermediate instruction and practice in digital photography, including background, equipment, shooting techniques, lighting, scanning, manipulation, and output (web or print). (Formerly DMA 137)
Prerequisite: DMA 136 or permission of instructor.

**DRAMA101–Intro to Theatre**
Cr: 5 Wkly hrs: 5 hours Lecture
H - An overview of theatre arts, including the nature of theatre, its role in society, activities of playwrights, directors, designers, and performers. Attendance at two outside performances is required.

**DRAMA 120–Theatre Production Workshop**
Cr: 3 Wkly hrs: 1 hour Lecture, 4 hours Lab
H/SP - Course can be offered as: DRAMA 120/220. Lecture and discussion on all aspects of theatre productions currently being prepared. May be repeated for up to nine credits for each course number.

**DRAMA 201–Introduction to the Art of Film**
Cr: 5 Wkly hrs: 5 hours Lecture
H - An introductory study of the narrative, visual and aural elements of film, including the cultural and social forces that create the variety of film styles. (Same as HUMAN 201)

**DRAMA 210–Stagecraft**
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
H - Basics of scenic planning, drafting, construction, rigging, and shifting techniques.

**DRMA 211–Costume Fundamentals**
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
H - Theory and practice of costume and makeup design including script analysis, design process, and application of construction techniques.

**DRMA 212–Lighting Design I**
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
H - Theory and practice of lighting design, including planning, handling and rigging lighting instruments, color theory, and special effects.

**DRMA 251–Beginning Acting**
Cr: 5 Wkly hrs: 5 hours Lecture
H - An introduction to theory and practice of acting with emphasis on the development of fundamental processes of imagination, concentration, observation, and recall.

**DRMA 252–Intermediate Acting**
Cr: 5 Wkly hrs: 5 hours Lecture
H - An in-depth study of theory and practice of acting, continued development of fundamentals and techniques of physical and psychological integration, communication with a partner, and script analysis.
Prerequisite: DRMA 251 or permission of instructor.

**DRMA 253–Advanced Acting**
Cr: 5 Wkly hrs: 5 hours Lecture
H - Advanced study of theory and practice with emphasis on communication with partner, extensive analysis of plays and detailed preparation of scenes from historical and contemporary theatre.
Prerequisite: DRMA 252 or permission of instructor.

**DRMA 256–Theatre Speech**
Cr: 3 Wkly hrs: 3 hours Lecture
H - Analysis and application of vocal production and articulation techniques.

**DRMA 260–Scenic Design**
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
H - An introduction to the basics of scenic design, including working in colors and three dimensions, script analysis and working with a design team.

**ECED&105–Intro Early Child Ed**
Cr: 5 Wkly hrs: 5 hours Lecture
SS - Overview of the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices, and program models. Observe children, professionals, and programs in action. (Formerly ECE 170)

**ECED&107–Health/Safety/Nutrition**
Cr: 5 Wkly hrs: 5 hours Lecture
Develop knowledge and skills to ensure good health, nutrition and safety of children in group care and education programs. Recognize the signs of abuse/neglect and reporting and available community resources. (Replaced 3-credit ECE 184)

**ECED&120–Practicum-Nurturing Rel**
Cr: 2 Wkly hrs: 1 hour Lecture, 2 hours Lab
Introductory level application of theories of best practice in an early learning setting. Focus on developing supportive relationships while keeping children healthy and safe. (Replaced 3-credit ECE 101)

**ECED&125–Child Advocacy (CASA Training)**
Cr: 3 Wkly hrs: 3 hours Lecture
The skills, knowledge, and attitudes needed to be a CASA/GAL (Court Appointed Special Advocates/Guardian ad Litem) volunteer - an advocate for children who are court-involved as a result of neglect or abuse. (Formerly ECE 125)
Prerequisite: ENGL&101 with a 2.0 or better.

**ECED&132–Infants/Toddlers Care**
Cr: 3 Wkly hrs: 3 hours Lecture
Examine the unique developmental needs of infants and toddlers. Study the role of the caregiver; relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally relevant care. (Formerly ECE 163)

**ECED&134–Family Child Care**
Cr: 3 Wkly hrs: 3 hours Lecture
The basics of home/family child care program management. Topics include: licensing requirements; business management; relationship building; health, safety, & nutrition; guiding behavior and; promoting growth & development. (Formerly ECE 189)

**ECED&138–Home Visitor/Parent Engagement**
Cr: 3 Wkly hrs: 3 hours Lecture
Plan and provide home visits and group activities that promote secure parent-child relationships and support families to provide high-quality early learning experiences that are embedded in everyday routines and experiences.

**ECED&139–Admin Early Lrng Prog**
Cr: 3 Wkly hrs: 3 hours Lecture
Focuses on developing administrative skills and technical use.

**ECED&141–Practicum II**
Cr: 5 Wkly hrs: 2 hours Lecture, 6 hours Lab
Intermediate level practical application in the working world of theories and methods studied in the Early Childhood program. (Formerly ECE 151/151A)
Prerequisite: ECED& 120, ECED& 160, and ECED& 190 or permission of instructor.
ECE&D 160 – Curriculum Development  
Cr: 5  Wkly hrs: 5 hours Lecture  
Investigate learning theory, program planning, and tools for curriculum development promoting fine/gross motor, social-emotional, cognitive and creative skills and growth in young children. (Includes content formerly in 3-credit ECE 165).  

ECE&D 164 – Mathematics for Early Childhood Ed  
Cr: 5  Wkly hrs: 5 hours Lecture  
Math for early learning environments. Addresses how children learn and understand mathematical concepts including whole numbers, fractions, geometry, measurement, data analysis and problem solving. (Formerly ECE 166)  
Prerequisite: MATH 090A with a grade of at least 2.0 or placement test score.  

ECE&D 166 – Environmental Evaluation  
Cr: 1  Wkly hrs: 1 hours Lecture  
Evaluating the early childhood environment using an industry standard tool (the ECERS) to ensure a quality experience for children and to optimize learning and development. (Formerly ECE 167)  

ECE&D 172 – Introduction to Montessori  
Cr: 3  Wkly hrs: 3 hours Lecture  
This course provides an introduction to the Montessori method and philosophy, focusing on an analysis and application of Montessori principles of learning, teaching, sequence, use of didactic materials and classroom organization. (Formerly ECE 172)  

ECE&D 173 – Art and Creative Activities  
Cr: 3  Wkly hrs: 3 hours Lecture  
Children’s art and the development of the young child. Developmentally appropriate methods of planning and implementing creative activities in all areas of the ECE curriculum. (Formerly ECE 173)  

ECE&D 174 – Multicultural Education  
Cr: 3  Wkly hrs: 3 hours Lecture  
This course focuses on the need to recognize and understand the similarities and differences among people and develop a respect for all individuals and groups. Assists teachers to recognize the learning needs of children from different racial, ethnic, cultural and socioeconomic groups and encourage teachers to integrate multicultural/diversity teaching into the early learning environment. (Formerly ECE 190)  

ECE&D 176 – Music and Movement for Young Children  
Cr: 3  Wkly hrs: 3 hours Lecture  
This course introduces teachers to the sequence of physical and motor development of young children as well as activities and equipment to promote optimum movement and physical education to the young child. In addition, musical concepts such as body rhythms, songs, sounds, instruments, records, and musical environments suitable for the early learning environment are introduced. (Formerly ECE 176 and 182)  

ECE&D 177 – Science for Young Children  
Cr: 3  Wkly hrs: 3 hours Lecture  
The role of science in the education and development of the young child, including an overview of cognitive characteristics, appropriate materials and activities. (Formerly ECE 177)  

ECE&D 178 – Children’s Literature  
Cr: 3  Wkly hrs: 3 hours Lecture  
History of, methods for criteria for evaluation and selection of children’s literature. Exploration of genres, authors, illustrators of literature for children ages birth through eight, including use throughout the curriculum. (Formerly ECE 178)  

ECE&D 180-Lang/Literacy Develop  
Cr: 3  Wkly hrs: 3 hours Lecture  
Develop strategies for language acquisition and literacy skill development at each developmental stage through the four interrelated areas of speaking, listening, writing, and reading. (Formerly ECE 179).  

ECE&D 187 – Special Topics – CDA Credential I  
Cr: 6  Wkly hrs: 12 hours Lab  
The basics of physical, social, emotional, and intellectual development, and observing/record sharing child behavior and growth necessary to obtain the Child Development Associate (CDA) Credential. (Formerly ECE 187)  

ECE&D 188 – Child Abuse and Neglect  
Cr: 2  Wkly hrs: 2 hours Lecture  
Course focuses on the research, theory and practice in child welfare: physical, emotional and sexual abuse and neglect causation; and prevention with emphasis on practices in Washington State. (Formerly ECE 188)  

ECE&D 190 – Observation/Assessment  
Cr: 3  Wkly hrs: 2 hours Lecture, 2 hours Lab  
Collect and record observation and assessment data in order to plan for and support the child, the family, the group and community. Practice reflection techniques, summarizing conclusions and communicating data. (Includes content formerly in 2-credit ECE 171)  

ECE&D 201 – Practicum III  
Cr: 5  Wkly hrs: 1 hours Lecture, 12 hours Clinic  
Students apply cumulative knowledge to practice skills with children and professional interactions with families and staff in a developmentally appropriate early childhood setting. (Formerly ECE 201)  
Prerequisite: ECE&D 120, ECE 151, or permission of instructor.  

ECE&D 215 – ECE Professional Portfolio  
Cr: 1  Wkly hrs: 1 hours Lecture  
A seminar to develop an individual professional portfolio documenting essential areas of study in early childhood education and to plan short and long term professional improvement goals. (Formerly ECE 215)  

ECE&D 225 – Issues and Trends in ECE  
Cr: 3  Wkly hrs: 3 hours Lecture  
Current issues and trends impacting ECE field. National/international developments, concerns facing teachers, families, children and society today. (Formerly ECE 225)  

ECE&D 287 – Special Topics – CDA Credential II  
Cr: 6  Wkly hrs: 12 hours Lab  
The basics of program operation/management; professionalism, productive relationships with families, and safe/healthy environments necessary to obtain the Child Development Associate (CDA) Credential. (Formerly ECE 287)  

Economics  

ECOE 201 – Micro Economics  
Cr: 5  Wkly hrs: 5 hours Lecture  
SS – Supply and demand; cost and revenue analysis; pure competition; agriculture; monopoly; imperfect competition; antitrust policy; regulation; factor incomes; unions. (Formerly BS-EC 202)  
Prerequisite: MATH 099 or above with a grade of 2.0 or above and an Accuplacer Reading Comprehension test score of 84 or above or permission of instructor.  

ECOE 202 – Macroeconomics  
Cr: 5  Wkly hrs: 5 hours Lecture  
SS – Fundamentals of a private-enterprise economy; national income; employment; inflation; growth; money; the monetary system; Keynesian Economics; Monetarist Economics; international trade. (Formerly BS-EC 201)  
Prerequisite: MATH 099 or above with a grade of 2.0 or above and an Accuplacer Reading Comprehension test score of 84 or above or permission of instructor.  

Education  

EDUC 10 – Reading Techniques for At-Risk Child  
Cr: 5  Wkly hrs: 5 hours Lecture  
The course is a good exploratory elective for people pursuing a para education degree, for future teachers, or for parents seeking to boost their child’s reading skills. Provides an exposure to basic tutorial strategies for use in a K-8 school setting.  

EDUC 115 – Child Development  
Cr: 5  Wkly hrs: 5 hours Lecture  
Build a functional understanding of the foundation of child development, prenatal to age eleven. Observe and document physical, social, emotional, and cognitive development of children, reflective of cross cultural and global perspectives.  

EDUC 120 – Instructional Strategies  
Cr: 5  Wkly hrs: 5 hours Lecture  
This is a course designed to give students a foundation of the instructional process, from planning, implementing, and evaluating instruction. Students will gain an understanding of the role of the learning process, best educational practices, the use of on-going assessment, and modifying instruction to meet the needs of all learners.  

EDUC A 121 – Child Development I: Birth to 8  
Cr: 5  Wkly hrs: 5 hours Lecture  
SS – Provides an overview of typical developmental sequences for children from birth to age 8, the conditions impacting development and the history and theories of child development. (Formerly EDUC & 115)
**Course Descriptions**

**EDUC&122–Child Development II: 8-Teen**
Cr: 5 Wkly hrs: 5 hours Lecture
SS - Survey of the development of children from middle childhood through adolescence. Includes social, emotional, physical, motor, intellectual, moral and language characteristics.
Prerequisite: EDUC& 121.

**EDUC 123–Classroom Management**
Cr: 5 Wkly hrs: 5 hours Lecture
Classroom management and student discipline as tools to enhance student learning in the classroom.

**EDUC&130–Guiding Behavior**
Cr: 3 Wkly hrs: 3 hours Lecture
Examine the principles and theories promoting social competence in young children and creating safe learning environments. Develop skills promoting effective interactions, providing positive individual guidance, and enhancing group experiences. (Formerly ECE 185)

**EDUC 132–Educational Technology/K-12 Setting**
Cr: 5 Wkly hrs: 5 hours Lecture
The role of educational technology in a K-12 setting to enhance academic learning and success.

**EDUC&136–School Age Care**
Cr: 3 Wkly hrs: 3 hours Lecture
Develop skills to provide developmentally appropriate and culturally relevant activities and care, specifically: preparing the environment, implementing curriculum, building relationships, guiding academic/social skill development, and community outreach. (Formerly ECE 160)

**EDUC&150–Child/Family/Community**
Cr: 3 Wkly hrs: 3 hours Lecture
Integrate the family and community in which a child develops. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their child, and tools for effective communication. (Formerly ECE 210)

**EDUC 199–Practicum**
Cr: 1-5 Wkly hrs: 10 hours Lab
Course can be offered as: EDUC 199/299.
A practical application in the working world of the basic theories studied in the above program or discipline.
Prerequisite: Instructor permission.

**EDUC&202–Intro to Education**
Cr: 5 Wkly hrs: 5 hours Lecture
SS - Introduction to the role of education in society, the sociological and psychological aspects; an orientation to the personal, academic, and professional requisites that contribute to success. (Formerly EDUC 101)

**EDUC&204–Exceptional Child**
Cr: 5 Wkly hrs: 5 hours Lecture
SS - Exploring trends, resources, and strategies for including children with disabilities, and their families, in the educational and the wider communities.

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**Electronics**

**ELECT 101–Direct Current**
Cr: 5 Wkly hrs: 5 hours Lecture
Fundamentals of direct current from Ohm's Law through network theorems.
Prerequisite: MATH 094 or equivalent.

**ELECT 102–Alternating Current**
Cr: 5 Wkly hrs: 5 hours Lecture
Principles of inductance, capacitance, impedance, resonance, and filters.
Prerequisite: ELECT 101 or equivalent.

**ELECT 103–Introduction to Solid-State**
Cr: 5 Wkly hrs: 5 hours Lecture
Introduction to the fundamentals of diode and bipolar transistor theory.
Prerequisite: ELECT 102 or equivalent.

**ELECT 106–Electronic Fabrication**
Cr: 1 Wkly hrs: 2 hours Lab
Basic skill development through hands-on practice is emphasized covering such topics as soldering techniques and circuit board assembly.

**ELECT 111–Direct Current Circuit Laboratory**
Cr: 3 Wkly hrs: 6 hours Lab
Laboratory practice and experimentation in elementary circuitry using basic electronic instrumentation.
Prerequisite: Concurrent enrollment in ELECT 101.

**ELECT 112–Alternating Current Circuit Lab**
Cr: 3 Wkly hrs: 6 hours Lab
Practice in the application of AC concepts: Techniques in using electronic instruments, such as oscilloscopes, digital multimeters, frequency counters, and 2 meters.
Prerequisite: Concurrent enrollment in ELECT 102.

**ELECT 113–Basic Solid-State Laboratory**
Cr: 3 Wkly hrs: 6 hours Lab
Applications of diodes and transistors in electronic circuits.
Prerequisite: Concurrent enrollment in ELECT 103.

**ELECT 160–Computer Applications I**
Cr: 2 Wkly hrs: 2 hours Lecture
Practice in the application of typical data processing operations for solving direct current problems.
Prerequisite: Must be taken concurrently with ELECT 101.

**ELECT 165–Introduction to Digital Logic**
Cr: 4 Wkly hrs: 4 hours Lecture
Introduction to the theory, practices and application of digital electronics.
Prerequisite: ELECT 102.

**ELECT 166–Introduction to Digital Logic Lab**
Cr: 2 Wkly hrs: 4 hours Lab
Introduction to the theory, practices and application of digital electronics. Theoretical concepts and trouble-shooting techniques are demonstrated through lab experiments.
Prerequisite: Concurrent enrollment in ELECT 165.

**ELECT 170–Computer Applications II**
Cr: 2 Wkly hrs: 2 hours Lecture
Course helps familiarize the student with the use of personal computers, the school's computer labs, and using computers to solve electronic-related problems.
Prerequisite: Must be taken concurrently with ELECT 102.

**ELECT 200–Basic Electronics Theory & Assessment**
Cr: 2 Wkly hrs: 2 hours Lecture
This course reviews fundamental theory associated with the first-year electronics program and assesses students' preparation for advanced instruction.
Prerequisite: Permission of instructor.

**ELECT 201–Solid-State Devices**
Cr: 5 Wkly hrs: 5 hours Lecture
Continuation of solid-state theory, use of approximation techniques in circuit analysis, development of parameters, evaluation of circuit potentials and applications.
Prerequisite: Concurrent enrollment in ELECT 211.

**ELECT 202–Advanced Solid-State Devices**
Cr: 5 Wkly hrs: 5 hours Lecture
Continuation of analysis in using equivalent circuit concepts. Various types of solid-state components and introduction to analog integrated circuits.
Prerequisite: ELECT 201 and concurrent enrollment in ELECT 212.

**ELECT 203–Special Circuits**
Cr: 5 Wkly hrs: 5 hours Lecture
Solid-state devices/integrated circuits in industry: active filters, phase locked loops, SCRs, Triacs, and other power control semiconductors.
Prerequisite: ELECT 202 and concurrent enrollment in ELECT 213.

**ELECT 211–Solid-State Laboratory**
Cr: 3 Wkly hrs: 6 hours Lab
Laboratory practice in the construction, analysis, and trouble shooting of bipolar transistor circuits.
Prerequisite: Completion of first-year core program or equivalent.

**ELECT 212–Advanced Solid-State Circuit Lab**
Cr: 3 Wkly hrs: 6 hours Lab
Development of and experimentation with transistor amplifiers and analog integrated circuits.
Prerequisite: ELECT 201, 211.

**ELECT 213–Special Circuits Laboratory**
Cr: 3 Wkly hrs: 6 hours Lab
Laboratory practice in analysis and trouble-shooting of active filters, phase locked loops, and solid-state power control circuits.
Prerequisite: Concurrent enrollment in ELECT 203.

**ELECT 225–Advanced Digital Circuits**
Cr: 5 Wkly hrs: 5 hours Lecture
A continuation of basic digital circuits, with emphasis on counters, decoders, and registers. Course also includes an introduction to microprocessors.
Prerequisite: ELECT 165 or equivalent.

**ELECT 227–Microcomputers**
Cr: 3 Wkly hrs: 3 hours Lecture
Digital circuit types used in industry for machine control such as microprocessors and microcomputers.
Prerequisite: ELECT 165, 225 or equivalent.

**ELECT 229–Advanced Microprocessors**
Cr: 3 Wkly hrs: 3 hours Lecture
Theory and applications of interface systems used in the control of microprocessors.
Prerequisite: ELECT 225 or equivalent.
ENGR 215–Dynamics
Cr: 5 Wkly hrs: 5 hours Lecture
Studies of motion using vector calculus, central force motion, Newtonian mechanics, energy, and impulse momentum methods. (Offered Spring Quarter only.) (Formerly ENGR 230)
Prerequisite: ENGR 214 and MATH 221 with a grade of 2.0 or higher or ENGR 214 with a grade of 2.0 or higher and co-enrollment in MATH 221.
ENGR 216–CAD Applications for Engineering Design
Cr: 3 Wkly hrs: 6 hours Lab
Advanced CAD applications for engineering design; surfaces, sheet metal, weldments, molds, multipart bodies, advanced assembly modeling, CAD FEA, CFD, motion studies and CAD documentation.
Prerequisite: ENGR 114 and ENGR 225 each with a grade of 2.0 or above or instructor permission.
ENGR 222–Thermodynamics
Cr: 5 Wkly hrs: 5 hours Lecture
Introduction to energy conservation topics with application to engineering design; including energy transformation and maximum efficiency. (Formerly ENGR 260)
Prerequisite: MATH 163 and PHYS 254 both with 2.0 grade or higher or MATH 163 with 2.0 grade and co-enrollment in PHYS 254 with instructor permission.
ENGR 225–Mechanics of Materials
Cr: 5 Wkly hrs: 5 hours Lecture
Introduces the concepts of stress, deformation, and strain in solid materials; design implications are explored. (Formerly ENGR 220)
Prerequisite: MATH 163 with 2.0 grade or higher required. Co-enrollment in MATH 250 desired. CIS 141 recommended.
ENGR 270–Fundamentals of Materials Science
Cr: 4 Wkly hrs: 4 hours Lecture
Elementary principles underlying the structure and properties of materials used in engineering practice. Relation of microstructure to physical properties. (Formerly ENGR 170)
Prerequisite: CHEM 141 with a grade of 2.0 or higher AND ENGR 225 with a grade of 2.0 or higher AND co-enrollment in ENGR 271.
ENGR 271–Materials Sciences Laboratory
Cr: 2 Wkly hrs: 4 hours Lab
Laboratory experience in various material testing and experimental stress analysis methods, engineering data analysis and report writing. (Formerly ENGR 171)
Prerequisite: ENGR 225 with 2.0 or higher and co-enrollment in ENGR 270.

Course Descriptions

ENGL 091–Reading & Writing in Life & College
Cr: 5 Wkly hrs: 2.5 hours Lecture, 5 hours Lab
Course can be offered as ENGL 091/092. This intro course helps students develop strategies for reading, writing, reflection, and problem solving. Assignments focus on individual and group processes for personal/academic writing.
Prerequisite: Assessment test score or instructor permission.
ENGL 093–Developing Skills in English
Cr: 5 Wkly hrs: 5 hours Lecture
An introduction to discourse within the business community, focusing on appropriate usage and on effective reading, writing, editing, and speaking skills.
Prerequisite: Acceptance into non-credit or non-degree program.
ENGL 098–Reading/Writing for Academic Success
Cr: 5 Wkly hrs: 2 hours Lecture, 6 hours Lab
This course develops students’ critical strategies for reading, writing, problem solving, and handling academic life. Reading/writing assignments focus on personal academic/career interests.
Prerequisite: Assessment test score, 2.0 in ENGL 091/092 or instructor permission.
ENGL 099–Reading/Writing Academic Disciplines
Cr: 1-6 Wkly hrs: 4.5 hours Lecture, 3 hours Lab
This course develops students’ critical strategies for reading, writing, problem solving, and handling academic life. Reading/writing assignments focus on academic topics.
Prerequisite: Assessment test score, or ENGL 091 with grades of 2.00 or better, or ENGL 092 with grades of 2.00 or better, or instructor permission.
ENGL&101–English Composition I
Cr: 5 Wkly hrs: 5 hours Lecture
A college-level introduction to effective written composition for academic, vocational, and occupational students, with emphasis on exposition. (Formerly ENGL&101)
Prerequisite: Appropriate placement test score, or ENGL 091 with grades of 3.30 or better, or ENGL 099 with grades of 2.00 or better, or completion of IE 094 and IE 094 with grades of 3.00 or better; with grades of 3.00 or better, or completion of IE 100 and IE 101 with grades of 2.00 or better; with grades of 2.00 or better, or English 101 instructor permission.
ENGL&102–Composition II
Cr: 5 Wkly hrs: 5 hours Lecture
A continuation of ENGL&101 with emphasis on argumentation, research, and documentation. (Formerly ENGL&102)
Prerequisite: Successful completion of ENGL&101 with a 2.0 or better or its equivalent.
ENGL&111–Intro to Literature
Cr: 5 Wkly hrs: 5 hours Lecture
H - A study of major literary forms and methods of interpretation. (Formerly ENGL 140)
ENGL&113–Intro to Poetry
Cr: 5 Wkly hrs: 5 hours Lecture
H - The course covers a selection of poets writing in English. The nature and development of their poetry and its distinguishing features. Also considers several schools of literary criticism. (Formerly ENGL 143)
Prerequisite: ENGL&101.
Course Descriptions

ENGL 141–The Short Story
Cr: 2 Wkly hrs: 2 hours Lecture
H - The nature and development of short fiction.

ENGL 150–Contemporary Literature
Cr: 5 Wkly hrs: 5 hours Lecture

ENGL 220–Intro to Shakespeare
Cr: 5 Wkly hrs: 5 hours Lecture
H - Studies in several major dramas and sonnets. (Formerly ENGL 269)

ENGL 226–British Literature I
Cr: 5 Wkly hrs: 5 hours Lecture
H - A survey of the development of English Literature from its beginnings through the later middle ages. (Formerly ENGL 266)

ENGL 227–British Literature II
Cr: 5 Wkly hrs: 5 hours Lecture
H - A survey of the development of English Literature from the Renaissance through 1789. (Formerly ENGL 267)

ENGL 228–British Literature III
Cr: 5 Wkly hrs: 5 hours Lecture
H - A survey of English Literature from 1789 to the present. (Formerly ENGL 268)

ENGL 235–Technical Writing
Cr: 5 Wkly hrs: 5 hours Lecture
Problem-solving strategies, information literacy, and research for professional and technical writing applications. (Formerly ENGL 104)
Prerequisite: Successful completion of ENGL 101 with a 2.0 or better or its equivalent.

ENGL 244–American Literature I
Cr: 5 Wkly hrs: 5 hours Lecture
H - A survey of the development of American literature from Colonial Times through the Civil War. (Formerly ENGL 260)

ENGL 245–American Literature II
Cr: 5 Wkly hrs: 5 hours Lecture
H - A survey of the development of American literature from the post-Civil War period to the present. (Formerly ENGL 261)

ENGL 250–Major Authors and Works
Cr: 5 Wkly hrs: 5 hours Lecture
H - An in-depth study of a single author's works or of selected works by two or more authors, related by theme, time period, or cultural milieu. This course may be repeated for up to 15 credits.

ENGL 262–Asian American Literature
Cr: 5 Wkly hrs: 5 hours Lecture
H - A survey of literary works by Asian-American authors, from the late nineteenth century to the present.

ENGL 264–Native American Literature
Cr: 5 Wkly hrs: 5 hours Lecture
H - A survey of a wide spectrum of Native American verbal art, from traditional narratives and song to contemporary poetry, fiction, and film. Emphasis on cultural contexts and continuity.

ENGL 270–Creative Writing–Narration
Cr: 5 Wkly hrs: 5 hours Lecture
H - Development of biographical or autobiographical accounts. Students and instructor read and critique materials in a workshop setting.

ENGL 271–Creative Writing–Family History/Bio
Cr: 5 Wkly hrs: 5 hours Lecture
H - Writing out episodes or complete works of family history or biography. Students and instructor read and critique materials in a workshop setting.

ENGL 272–Creative Writing–Poetry
Cr: 5 Wkly hrs: 5 hours Lecture
H - Writing poems, constructing ballads and other appropriate forms, including free form or spontaneous free form subject matter. Students and instructor read and critique materials in a workshop setting.

ENGL 273–Creative Writing–Drama
Cr: 5 Wkly hrs: 5 hours Lecture
H - Invention and development of dramatic material: Dialogue, action, stage location, and music. Students and instructor read and critique materials in a workshop setting.

ENGL 274–Creative Writing–Short Story
Cr: 5 Wkly hrs: 5 hours Lecture
H - Development of short fictional narratives. Students and instructor read and critique materials in a workshop setting.

ENGL 275–Creative Writing–Long Narrative
Cr: 5 Wkly hrs: 5 hours Lecture
H - The development of long fictional narratives. Students and instructor read and critique materials in a workshop setting.

ENGL 276–Creative Writing–Advanced Poetry
Cr: 5 Wkly hrs: 5 hours Lecture
H - Further experience in writing poetry. Students and instructor read and critique materials in a workshop setting.
Prerequisite: ENGL 272.

ENGL 283–Asian Literature
Cr: 5 Wkly hrs: 5 hours Lecture
H - Representative selections from modern Chinese, Japanese, and Indian literature in translation.

ENGL 284–Survey of World Lit–20th Century
Cr: 5 Wkly hrs: 5 hours Lecture
H - A survey of 20th Century literature from many countries. Covers literary genre, critical methodologies, and research. (Same as HUMN 284)

ENGL 286–Women Authors
Cr: 5 Wkly hrs: 5 hours Lecture
H - A study of the distinctive contributions of women to literature.

ENGL 301–Writing in the Disciplines
Cr: 5 Wkly hrs: 5 hours Lecture
Theory and practice of writing in various academic disciplines.
Prerequisite: Successful completion of English 102 and 235 with a minimum GPA of 2.0.

ENGL 328–Literature and Medicine
Cr: 1-5 Wkly hrs: 5 hours Lecture
A study of medical themes in literature, exploring different representations of health, illness, and medical practice in novels, short fiction, and poetry. Literature and Medicine places emphasis on the historical and cultural contexts of both the literary works and their medical subjects, as well as how the methods of literary studies contribute to knowledge in the field of medicine. Authors, time periods, and nations covered may vary, but will typically include texts from the 19th and 20th centuries in Britain and America.
Prerequisite: ENGL 8101 or the equivalent with a 2.0 or better.

ENGL 345–American Literature II–Advanced
Cr: 1-5 Wkly hrs: 5 hours Lecture
H - A survey of the development of American literature from the post-Civil War period to the present. Not a continuation of ENGL 245. Students may receive credit for ENGL 245 or ENGL 345, but not both.
Prerequisite: ENGL 8101 or the equivalent with a 2.0 or better.

Fashion

FASH 101–Introduction to the Fashion Industry
Cr: 5 Wkly hrs: 5 hours Lecture
An in-depth look at the structure and the interrelationships between the consumer and the primary, secondary, and auxiliary market segments within the fashion industry.

FASH 102–Visual Merchandising & Promotion
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
A comprehensive study of merchandising which includes: presentation, analysis, experimentation and research of the merchandise presentation environment. Learn the practical application of store image, color, texture and display theories of visual merchandising techniques in the fashion industry. Field trips included.

FASH 103–History of Fashion
Cr: 5 Wkly hrs: 5 hours Lecture
An overview of costume history in Western culture from ancient civilizations to the present. Examine cultural, social, and historical events and analyze their effect on the history of costume and apparel, including the influence of historical costume on fashion today.

FASH 104–Fashion Styling
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
An overview on the art of styling and how to master it. Gain a unique insight as to what it takes creatively to become a fashion stylist by: understanding how to dress different body types; identify marketing strategies from a styling perspective; and by developing a final project incorporating style, image and identity using visual and written presentation.

FASH 105–Store Operations
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
Learn the steps needed to develop a retail operation, how to analyze business situations and apply solutions based on sound management theory, and how to examine the processes involved in maintaining a successful retail establishment.

FASH 106–Fashion Trends and Forecasting
Cr: 3 Wkly hrs: 2 hours Lecture, 2 hours Lab
Students will develop an understanding of the process, methods and influence of trend analysis and forecasting for the fashion business used for developing a merchandising plan for a retail business.
Prerequisite: None.

COURSE NOTES: H=Humanities, HSP=Humanities/Skills Performance
NS=Natural Science, SS=Social Science

*See course description for prerequisite.
Course Descriptions

**FASH 107 – Event Planning**
Cr: 2  Wkly hrs: 1 hours Lecture, 2 hours Lab
Event planning offers the opportunity to develop and present an idea, product or brand from the original idea, through the public relations process, in order to engage with consumers in new and exciting ways. The final project is the actual event.
Prerequisite: None.

**FASH 108 – Fashion Merchandising in NYC**
Cr: 2  Wkly hrs: 1 hours Lecture, 2 hours Lab
Students, under faculty supervision, visit New York City to study the factors involved in fashion marketing, design and the international customer’s attitudes about fashion. Career opportunities research is included.
Prerequisite: None.

**Film & TV**

**FILM & TV 199 – Practicum**
Cr: 1-5  Wkly hrs: 10 hours Lab
Course can be offered as: FILM & TV 199/299. Practical application in the working world of the basic theories studied in dramatic arts.
Prerequisite: FILM & TV 240.

**FILM & TV 240 – Acting for the Camera I**
Cr: 5  Wkly hrs: 5 hours Lecture
An applied study of the camera actor’s craft. Topics include feature film, daytime drama and television series performance styles. (Formerly DRMA 240)
Prerequisite: FILM & TV 240.

**FILM & TV 241 – Acting for the Camera II**
Cr: 5  Wkly hrs: 5 hours Lecture
An intermediate applied study of the camera actor’s craft. Topics include feature film, daytime drama and television series performance styles. (Formerly DRMA 241)
Prerequisite: FILM & TV 240.

**FILM & TV 242 – Acting for the Camera III**
Cr: 5  Wkly hrs: 5 hours Lecture
An advanced applied study of the camera actor’s craft. Topics include feature film, daytime drama and television series performance styles. (Formerly DRMA 242)
Prerequisite: FILM & TV 240.

**FILM & TV 243 – Acting for the Camera IV**
Cr: 5  Wkly hrs: 5 hours Lecture
An advanced and professional applied study of the camera actor’s craft. Topics include feature film, daytime drama and television series performance styles. (Formerly DRMA 243)
Prerequisite: FILM & TV 240.

**FILM & TV 245 – Screenwriting I**
Cr: 5  Wkly hrs: 5 hours Lecture
Students use computerized tools to practice the art and craft of scriptwriting. Emphasis is placed on genre-specific story structure development and execution. (Formerly DRMA 245)
Prerequisite: FILM & TV 245.

**FILM & TV 246 – Screenwriting II**
Cr: 5  Wkly hrs: 5 hours Lecture
Students use computerized tools to practice the art and craft of scriptwriting at an intermediate level. Emphasis is placed on genre-specific story structure development and execution. (Formerly DRMA 246)
Prerequisite: FILM & TV 245.

**FILM & TV 247 – Screenwriting III**
Cr: 5  Wkly hrs: 5 hours Lecture
Students use computerized tools to practice the art and craft of scriptwriting at an advanced level. Emphasis is placed on genre-specific story structure development and execution. (Formerly DRMA 247)
Prerequisite: FILM & TV 246.

**FILM & TV 248 – Screenwriting IV**
Cr: 5  Wkly hrs: 5 hours Lecture
Students use computerized tools to practice the art and craft of scriptwriting at an advanced and professional level. Emphasis is placed on genre-specific story structure development and execution. (Formerly DRMA 248)
Prerequisite: FILM & TV 247.

**FILM & TV 270 – Film Producing I**
Cr: 5  Wkly hrs: 5 hours Lecture
This class provides students with an introductory overview of the role of producer during the pre-production, production and post-production of a motion picture. (Formerly DRMA 270)
Prerequisite: Film Producing I

**FILM & TV 271 – Film Producing II**
Cr: 5  Wkly hrs: 5 hours Lecture
This class focuses on an intensive examination of the role of digital platforms and social media in producing and promoting motion pictures. (Formerly DRMA 271)
Prerequisite: Film Producing I

**FILM & TV 280 – Film Directing**
Cr: 5  Wkly hrs: 5 hours Lecture
Introduces the professional practices and techniques of feature film directing including pre-visualization, storyboarding, film language, staging, lighting, editing, camera angles and framing composition. (Formerly DRMA 280)

**FILM & TV 281 – Film Directing II**
Cr: 5  Wkly hrs: 5 hours Lecture
Practical application and intermediate techniques of feature film directing including pre-visualization, film language, staging, lighting, camera angles, framing composition and key frame methodology. (Formerly DRMA 281)
Prerequisite: FILM & TV 280.

**FILM & TV 285 – Digital Filmmaking I**
Cr: 5  Wkly hrs: 5 hours Lecture
This hands-on introductory course focuses on single camera filmmaking production, digital cinematography, audio recording, postproduction editing and other production related skills. Emphasis is on the technical and artistic elements of digital filmmaking with a concentration on narrative storytelling. (Formerly DRMA 285)

**FILM & TV 286 – Digital Filmmaking II**
Cr: 5  Wkly hrs: 5 hours Lecture
This hands-on intermediate course focuses on single camera filmmaking production, digital cinematography, audio recording, postproduction editing and other production related skills. Emphasis is on the technical and artistic elements of digital filmmaking with a concentration on narrative storytelling. (Formerly DRMA 286)
Prerequisite: FILM & TV 285.

**FILM & TV 287 – Digital Filmmaking III**
Cr: 5  Wkly hrs: 5 hours Lecture
This hands-on advanced course focuses on single camera filmmaking production, digital cinematography, audio recording, postproduction editing and other production related skills. Emphasis is on the technical and artistic elements of digital filmmaking with a concentration on narrative storytelling. (Formerly DRMA 287)
Prerequisite: FILM & TV 286.

**FILM & TV 288 – Digital Filmmaking IV**
Cr: 5  Wkly hrs: 5 hours Lecture
In this course, the instructor will guide the students to collaborate on short film projects in a practical environment. Students will select and concentrate on a primary specialization from the various technical and creative disciplines within digital film production. (Formerly DRMA 288)
Prerequisite: FILM & TV 287.

**FILM & TV 289 – Digital Filmmaking V**
Cr: 5  Wkly hrs: 5 hours Lecture
This advanced hands-on course focuses on the practical application of the art through producing short films and assigned special film projects that generate student demo reels. Students receive individual instruction within their primary digital filmmaking specialization and often work independently in this project-based class. (Formerly DRMA 289)
Prerequisite: FILM & TV 288.

**FILM & TV 301 – Directing Actors in a Film Performance**
Cr: 5  Wkly hrs: 5 hours Lecture
This course examines highly effective film directing styles and techniques that inspire actors to create real behavior and authentic emotion in an on-camera performance.
Prerequisite: Acceptance into BAS in Digital Filmmaking Program or Instructor Approval is required to register.

**FILM & TV 310 – Advanced Cinematography**
Cr: 5  Wkly hrs: 5 hours Lecture
This course focuses on developing a critical eye, creating an individual approach to cinematography and successful collaboration to create an original, adaptable cinematic look for a digital film. Students will learn advanced camera techniques and movements, the importance and uses of professional lenses, the exclusive and inclusive nature of frame composition, and the impact of lighting on the overall look and feel of a film.
Prerequisite: Acceptance into BAS in Digital Filmmaking Program or Instructor Approval is required to register.

**FILM & TV 320 – Advanced Film Directing**
Cr: 5  Wkly hrs: 5 hours Lecture
In this class, we will analyze in the classroom, and explore hands-on, the elements needed to develop a personal voice and style in film-making. Students will combine advanced techniques in script analysis, actor staging and blocking, and carefully designed camera movement as elements of visual style with detailed analysis of subject, theme, and point of view as elements of voice.
Prerequisite: Acceptance into BAS in Digital Filmmaking Program or Instructor Approval is required to register.

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*See course description for prerequisite.*

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Course Descriptions

GEOG 100—Introduction to Geography
Cr: 5 Wkly hrs: 5 hours Lecture
NS/SS - Survey of Geography including cartography and remote sensing, physical geography, human geography, regional geography and human impact on Earth. (Formerly GEOG 101)

GEOG 150—Physical Geography with Lab
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
NS - Basic physical elements of the environment and their regional and global distribution. Topics address processes within the atmosphere, hydrosphere, lithosphere, biosphere, and cryosphere. Areas of study include seasons, weather, climate, landscape formation, distribution of plants and animals. Includes laboratory and field studies. (Formerly GEOG 102)
Prerequisite: Previous science class recommended.

GEOG 200—Human Geography: Culture and Places
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - Cultural human geography focusing on geographical concepts, population, migration, folk and popular culture, language, religion, ethnicity, development and resource issues. (Formerly GEOG 103)
Prerequisite: English 100 is recommended.
Course Descriptions

Geography

Geography courses include:

**GEOG&207–Economic Geography: Fund, Global Development**
- Cr: 5
- Wkly hrs: 5 hours Lecture

- **Prerequisite:** Economic geography is concerned with the distribution of economic activity, the use of the world’s resources, and the spatial organization and expansion of the world economy. (Formerly GEOG 207)

**GEOG&250–Geography of the Pacific Northwest**
- Cr: 5
- Wkly hrs: 5 hours Lecture

- **Prerequisite:** ENGL 999 is recommended. Students will need to provide their own transportation to field study sites that are within a maximum radius of 60 miles from the OCS Bremerton campus. Field study visits are required once a week.

**GEOG 260–Earth from Space**
- Cr: 5
- Wkly hrs: 5 hours Lecture

- **Prerequisite:** A previous science class is recommended.

Geology

Geology courses include:

**GEOL&110–Survey of Earth Science**
- Cr: 5
- Wkly hrs: 5 hours Lecture

- **Prerequisite:** The interplay of the solid Earth, the atmosphere, and the hydrosphere. Global climate change, ozone depletion, and loss of biodiversity are major focal points.

**GEOL&101–Intro Physical Geology**
- Cr: 5
- Wkly hrs: 4 hours Lecture, 2 hours Lab

- **Prerequisite:** An introduction to Earth’s materials, processes, and landscapes and how they were formed; labs parallel lecture content. Optional field trips.

**GEOL&103–Historical Geology**
- Cr: 5
- Wkly hrs: 4 hours Lecture, 2 hours Lab

- **Prerequisite:** Topics are geologic history of earth since its formation, plate tectonic theory, organic evolution as interpreted in the fossil record, and the geologic time scale.

**GEOL&110–Environmental Geology**
- Cr: 5
- Wkly hrs: 4 hours Lecture, 2 hours Lab

- **Prerequisite:** Geologic resources and processes important to human welfare: Volcanoes, earthquakes, slope stability, rivers and flood management, groundwater, soils, mineral and energy resources. (Formerly GEOL 102)

**GEOL 155–Geologic Hazards**
- Cr: 5
- Wkly hrs: 5 hours Lecture

- **Prerequisite:** This course investigates a number of geologic hazards such as earthquakes, tsunami, volcanism, floods, landslides, and coastal hazards. Historic examples are used as case studies.

**GEOL&208–Geology of Pacific NW**
- Cr: 5
- Wkly hrs: 4 hours Lecture, 2 hours Lab

- **Prerequisite:** Understand the geologic origins of the rocks and landscapes in Washington and neighboring parts of the Pacific Northwest. (Formerly GEOL 108)

History

History courses include:

**HIST 110–Modern Asia**
- Cr: 5
- Wkly hrs: 5 hours Lecture

- **Prerequisite:** Survey of common heritage and historical events that crafted Asia: events since 1800 from different perspectives, major societies in the region, interactions among societies and with larger world.

**HIST&116–Western Civilization I**
- Cr: 5
- Wkly hrs: 5 hours Lecture

- **Prerequisite:** Introduction to development of Western Civilization from its earliest beginnings up to 1300 AD examining the major political, economic, religious, and social trends. (Formerly HIST 101)

**HIST&177–Western Civilization II**
- Cr: 5
- Wkly hrs: 5 hours Lecture

- **Prerequisite:** Introductory course in development of Western Civilization from 1300-1815 AD analyzing major political, religious, economic, and social trends. (Formerly HIST 102)

**HIST&188–Western Civilization III**
- Cr: 5
- Wkly hrs: 5 hours Lecture

- **Prerequisite:** Introductory course in development of Western Civilization from 1815, analyzing the major political, religious, economic, and social trends of this era. (Formerly HIST 103)

Homeland Security Management

HSEM 102–Introduction to Emergency Management
- **Cr:** 5
- Wkly hrs: 5 hours Lecture

- **Prerequisite:** Provides groundwork on which emergency services can build a strong foundation for disaster and emergency management for homeland security in the 21st century. Addresses issues, policies, questions, best practices, and lessons learned through recent years; requirements of NFPA 1600, Standard on Emergency Management and exposure to new and developing theories, practices, and technology in emergency management.

- **Prerequisite:** This is a required first course to enter the HSEM degree program. May take other HSEM courses concurrently.

*See course description for prerequisite.
HSEM 110–Basic Incident Command System/ National NIMS
Cr: 2 Wkly hrs: 2 hours Lecture
This course introduces the Incident Command System (ICS) and provides the foundation for higher-level ICS training. This course describes the history, features, and principles and organization structure of the Incident Command System. It also explains the relationship between ICS and the National Incident Management System (NIMS). (Course will meet ICS 100/200 requirements).
Prerequisite: HSEM 102 completed or concurrent or program advisor approval. Should be taken at first opportunity upon entering the HSEM degree program.

HSEM 120–All Hazards Emergency Planning
Cr: 3 Wkly hrs: 3 hours Lecture
This course is designed to introduce students to developing an effective emergency planning system. This course offers training in the fundamentals of the emergency planning process, including the rationale behind planning. Emphasis will be placed on hazard risk analysis and planning team development. Other topics, such as Continuity of Operations (COOP) and Support Functions, National Response Plan, Washington State Comprehensive Emergency Management Plan and contingency planning for areas such as Special Needs (Vulnerable Populations) or Animal Sheltering are included.
Prerequisite: HSEM 102 completed or concurrent or program advisor approval.

HSEM 120–Technology in Emergency Management
Cr: 3 Wkly hrs: 3 hours Lecture
This class provides a detailed overview of the technology used, and also clearly explains how the technology is applied in the field of emergency management. Students will learn how to utilize technology in emergency planning, response, recovery and mitigation efforts and they’ll uncover the key elements that must be in place for technology to enhance the emergency management process. Course overviews include: Web Emergency Operations Center (EOC), using technology with training and exercises, reverse 911 notification systems, video conferencing/downdlinks and Geographic Information System (GIS)/ Global Positioning System (GPS) capabilities.
Prerequisite: HSEM 102 completed or concurrent or program advisor approval.

HSEM 157–Public Information Officer
Cr: 2 Wkly hrs: 2 hours Lecture
The course is designed to train participants for coordinating and disseminating information released during emergency operations and for assisting in the scheduling and coordination of news conferences and similar media events. After completing this course the student will have met the sections required for Public Information Officer as outlined by NFPA 1035.
Prerequisite: HSEM 102 completed or concurrent or program advisor approval.

HSEM 160–Emergency Response Awareness to Terrorism
Cr: 5 Wkly hrs: 5 hours Lecture
Provides current and relevant information about terrorism, terrorist behavior, homeland security policies and dilemmas, and how to deal effectively with threats and the consequences of attacks. Student will gain insight into the key players involved in emergency management, local and state issues, particularly as they need to interact and work with FEMA and other federal agencies. Course components include identifying terrorism, causes of terrorism, preventing terrorist attacks, responding to terrorism attacks and avoidance in communication and leadership collapse.
Prerequisite: HSEM 102 completed or concurrent or program advisor approval.

HSEM 180–Public Administration
Cr: 3 Wkly hrs: 3 hours Lecture
This course provides an overview in the structure and issues of public service. Course participants will examine the context of public administration: the political system, the role of federalism, bureaucratic politics and power, and the various theories of administration that guide public managers today. Course components include public administration, personnel, budgeting, decision-making, organizational behavior, leadership, and policy implementation. Lessons will be drawn from the most current applications of public administration today, such as Hurricane Katrina efforts and Homeland Security.
Prerequisite: HSEM 102 completed or concurrent or program advisor approval.

HSEM 190–Special Topics in HSEM
Cr: 1-5 Wkly hrs: 5 hours Lecture
Special topics will be developed for areas outside the usual course offerings in Homeland Security Emergency Management degree. Topics developed will focus on a specific current issue or concept in the areas of homeland security or emergency management.
Note: HSEM 190X Special Topics (X = A, B, C,...) has a different topic each quarter (represented by the changing letter designation) and may be repeated an unlimited number of times. The first time applies towards the Core Requirements and additional HSEM 190X courses apply towards Electives.
Prerequisite: HSEM 102 completed or concurrent or program advisor approval.

HSEM 200–Emergency Operations Center
Cr: 2 Wkly hrs: 2 hours Lecture
This course provides the student with skills and knowledge to manage an Emergency Operations Center (EOC), acquire and control resources, and interface with on-scene responders within Incident Management Systems. Topics include EOC design, preparing, staffing and operating, jurisdictional setting, and the critical link between Incident Management Systems and emergency management operations.
Prerequisite: HSEM 110 and HSEM 102 with a 2.0 grade or higher.

HSEM 210–Exercise Design and Evaluation
Cr: 3 Wkly hrs: 3 hours Lecture
This course provides participants with the knowledge and skills to develop, conduct, evaluate and report effective exercises that test a community’s operations plan and operational response capability. Throughout the course, participants will learn topics including exercise program management, design and development, evaluation, and improvement planning. It also builds a foundation for subsequent exercise courses, which provide the specifics of the Homeland Security Exercise and Evaluation Program (HSEEP) and the National Standard Exercise Curriculum (NSEC).
Prerequisite: HSEM 102 and HSEM 120 with 2.0 grade or better or Program Coordinator approval.

HSEM 220–Developing and Managing Volunteer Resources
Cr: 2 Wkly hrs: 2 hours Lecture
This course will focus on methods and procedures for involving private-sector organizations and volunteers in emergency management programs in ways which benefit both parties. The focus of the course is on maximizing the effectiveness of volunteer resources by implementing a people-oriented system that addresses defining volunteer roles, designing a plan of action, recruiting volunteers, training individuals who volunteer and motivation and maintenance of a successful program. Participants will acquire skills and knowledge to make appropriate volunteer assignments that enhance the effectiveness of an integrated emergency management system.
Prerequisite: HSEM 102 completed or concurrent or program advisor approval.

HSEM 230–Disaster Response and Recovery
Cr: 2 Wkly hrs: 2 hours Lecture
The purpose of this course is to enable students to understand and think critically about response and recovery operations in the profession of emergency management. Students will utilize problem based learning by analyzing actual disaster events and applying the theories, principals, and practice of response and recovery. In addition, students will learn about the issues faced by special populations and how to address these special needs in natural disaster response and recovery.
Prerequisite: HSEM 102 and HSEM 120 with grade of 2.0 or better or program coordinator approval.

HSEM 240–HSEM Work-Based Learning
Cr: 5 Wkly hrs: 5 hours Lecture
Provides students real world experiences in homeland security and emergency management. Students learn to work within time constraints and are exposed to appropriate workplace behaviors. Students will have opportunities to refine the core skills they have learned from the courses or curriculum.
Prerequisite: HSEM 102 with 2.0 grade or higher. Requires HSEM program coordinator approval.

HSEM 250–Homeland Security Law and Ethics
Cr: 3 Wkly hrs: 3 hours Lecture
This course is designed to give the student an overview of various statutes, regulations, constitutional law, and common law associated with Homeland Security. This course examines emergency response, weapons of mass destruction, local government powers, Federal Emergency Management Agency (FEMA), Department of Homeland Security, civil rights, international anti-terrorism efforts, Homeland Security Act of 2002, and the Patriot Act. Students will be introduced to the legalities and ethics relevant to organizing for counterterrorism, investigating terrorism and other national security threats, crisis and consequence management.
Prerequisite: HSEM 102 with 2.0 grade or higher.

*COURSE NOTES: H=Humanities, H/SP=Humanities/Skills Performance, NS=Natural Science, SS=Social Science
### Course Descriptions

#### Hospitality Management

**HMGMT 102—Intro to Hospitality Industry**

**Cr: 3**  
Wkly hrs: 3 hours Lecture  
Intro to Hospitality is a comprehensive tour of the fascinating and challenging fields of the hospitality industry: travel and tourism, lodging, food service, meetings, conventions and expositions, leisure and recreation.  
Prerequisite: Instructor signature.

**HMGMT 124—Dining Room Supervision**

**Cr: 6**  
Wkly hrs: 2 hours Lecture, 8 hours Lab  
The secret to success in the hospitality industry is SERVICE or more precisely EXCELLENT SERVICE... and the secret to providing excellent service is the training provided to the waitstaff by the supervisor. This course will provide the potential supervisor with the knowledge and skills required to insure EXCELLENT SERVICE.  
Prerequisite: CULIN 104: Dining Room Service.

**HMGMT 133—Elements of Hospitality Management**

**Cr: 3**  
Wkly hrs: 3 hours Lecture  
This course offers an overview of the characteristics and attributes of leaders and compares different leadership styles. The functions of management are detailed and the distinction between leadership and management is made.  
Prerequisite: Instructor signature, students must have a valid Kitsap County Food Handler’s permit to provide to instructor, taken and passed HMGMT 102 with at least a 2.0 grade.

**HMGMT 135—Beverage Management**

**Cr: 3**  
Wkly hrs: 3 hours Lecture  
This course covers the fundamental areas of beverage operations: the planning of the bar, bar staffing, legal factors to consider, drink costing, purchasing, receiving and storage, and beverage production methods.  
Prerequisite: Instructor signature.

#### Human Services

**HS 105—Substance Abuse Prevention**

**Cr: 3**  
Wkly hrs: 3 hours Lecture  
Students will acquire the skills and knowledge of substance abuse prevention theory and practice.  
Prerequisite: ENGL101 with 2.0 or better.

**HS 107—Intro to Human Services**

**Cr: 5**  
Wkly hrs: 5 hours Lecture  
SS - A survey of the key concepts and guiding principles in human services theory and practice.  
Prerequisite: ENGL101 with 2.0 or better.

**HS 110—Diversity, Ethics & the Law**

**Cr: 3**  
Wkly hrs: 3 hours Lecture  
Explores the ethical issues of confidentiality, duty to care, duty to warn and other related issues for counselors and therapists. Includes 4 hours of AIDS prevention education.  
Prerequisite: ENGL101 with a 2.0 or better.

**HS 112—Case Management for CDP**

**Cr: 3**  
Wkly hrs: 3 hours Lecture  
Assessment, case management, and documentation for Chemical Dependency Professionals.  
Prerequisite: ENGL101 with a 2.0 or better; HSSA & 101.

**HS 113—CDP Individual Counseling**

**Cr: 3**  
Wkly hrs: 3 hours Lecture  
Survey of accepted one-on-one counseling methodologies, and methods for treating chemical dependency.  
Prerequisite: ENGL101 with a 2.0 or better, HSSA & 101.

**HS 114—CDP Group Counseling**

**Cr: 3**  
Wkly hrs: 3 hours Lecture  
Survey of accepted group counseling modalities, techniques and methods for treating chemical dependency.  
Prerequisite: ENGL101 with a 2.0 or better, HSSA & 101.

**HS 115—Adolescent Addiction and Treatment**

**Cr: 2**  
Wkly hrs: 2 hours Lecture  
Survey of accepted counseling methodologies, techniques and methods for assessing and treating chemically dependent adolescents.  
Prerequisite: ENGL101 with a 2.0 or better, HSSA & 101.

**HS 120—Relapse Prevention/Family Counseling**

**Cr: 3**  
Wkly hrs: 3 hours Lecture  
Review of the stages of relapse, relapse prevention, the development of refusal skills, and methods and strategies of integrating significant others into the treatment process.  
Prerequisite: ENGL101 with a 2.0 or better, HSSA & 101.

**HS 122—Suicide Risk Assessment & Management**

**Cr: 3**  
Wkly hrs: 3 hours Lecture  
An exploration of the theoretical foundation in suicide risk assessment and management with a special focus on the epidemiology of US suicide, mental illness and substance abuse, and evidenced-based risk and protective factors. Role play and skill development exercises included.  
Prerequisite: ENGL101 with a 2.0 or better.

**HS 123—Co-Occurring Disorders**

**Cr: 3**  
Wkly hrs: 3 hours Lecture  
An overview of guiding principles and core components of co-occurring disorders treatment using lecture and experiential learning methods.  
Prerequisite: ENGL101 with a 2.0 or better, HSSA & 101 and PSYC & 220.

**HS 126—Domestic Violence & Sexual Assault Advocate Core**

**Cr: 3**  
Wkly hrs: 3 hours Lecture  
SS - For those interested in learning how to advocate for sexual assault and domestic violence survivors this 30 hour Washington State approved training is intended to develop responsive and effective advocacy skills to support survivors and is recognized by the Office of Crime Victim Advocacy.  
Prerequisite: Completion of ENGL101 with a grade of 2.0 or above.

**HS 275—Human Services & CDP Practicum 1**

**Cr: 5**  
Wkly hrs: 2 hours Lecture, 9 hours Clinic  
Practicum offers opportunities for students to demonstrate competency in work settings such as human services agencies and chemical dependency treatment facilities.  
Prerequisite: Completion of core requirements for Human Services Certificate Program. Instructor permission required before enrolling.

**HS 276—Human Services & CDP Practicum 2**

**Cr: 5**  
Wkly hrs: 2 hours Lecture, 9 hours Clinic  
Practicum offers opportunities for students to demonstrate competency in work settings such as human services agencies and chemical dependency treatment facilities.  
Prerequisite: Completion of core requirements for Human Services Certificate Program. Instructor permission required before enrolling.

#### Humanities

**HUMAN 101—Diversity and American Culture**

**Cr: 5**  
Wkly hrs: 5 hours Lecture  
This course introduces students to the interdisciplinary study of diversity in American culture and society through the synthesis of theories, concepts, and insights from literature, sociology, and history. Students will have the opportunity to examine various media and their own complex identities and families in specific socio-historical and cultural contexts. Through careful reading and discussion of novels, short stories, autobiographies, films, activist publications, memoirs, literary fiction, and television programs will be historically and theoretically situated in order to examine the social significance and political impact of these works.  
Prerequisite: Completion of ENGL101 with a grade of 2.0 or above is strongly recommended.

**HUMAN 102—The LGBT Experience**

**Cr: 5**  
Wkly hrs: 5 hours Lecture  
This course provides students with an introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies. Students will become familiar with critical approaches to the study of sexuality and gender from an interdisciplinary perspective. Focus will be on investigating the production and regulation of sexualities in relation to gender identities, popular culture, racial and national formations, and media aesthetics. The class will also engage varying competing arguments about contemporary controversies. Readings and primary texts will include historical materials, sociological studies, queer and transgender theory, activist publications, memoirs, literary fiction, nightclub culture, drag performances, and film. (Same as ACES 102).  
Prerequisite: Completion of ENGL101 with a grade of 2.0 or above is strongly recommended.

**HUMAN 145—Language & Culture of the Middle East**

**Cr: 5**  
Wkly hrs: 5 hours Lecture  
This is an introduction to the language and culture of the Middle East, with special emphasis on Islam.

**HUMAN 160—Latino/os and Hollywood Imagery**

**Cr: 5**  
Wkly hrs: 5 hours Lecture  
This course is devoted to analyzing representations of Latino/a and Chicana/o in Hollywood culture and cinema. How are actors and filmmakers working to challenge stereotypes? How do past patterns of Hollywood imagery remain in our present? Through the study of narrative and cinematic art forms, students will decipher and critique how meanings of race, class, gender, and sexuality get produced and sometimes contest long-held beliefs about Latino/a and Chicana/o identities. Films, literary fiction, and television programs will be historically and theoretically situated in order to examine the social significance and political impact of these works.
of Hollywood’s imagery on one the fastest growing social groups in American society. Special attention may be given to issues of labor, language, immigration, and Latina and Chicana feminism. *Note: “Latina/o” refers to people of Latina American descent in the U.S., while “Chicana/o” refers to people of Mexican descent in the U.S. (Same as ACES 160)

Prerequisite: Completion of ENGL101 with a grade of 2.0 or above is strongly recommended.

HUMAN 170–Black Voices in America
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - This course focuses on the voices and experiences of black people in the United States, emphasizing ideas and concepts in black social thought, political protest, and artistic efforts to initiate social change. By drawing from visual art, music, literature, history and the social sciences, the course will examine how the wide-spectrum of black leaders, intellectuals, and organizations have focused their energies in finding ways to thrive and to work toward the elimination of institutional racism, sexism, homophobia, and classism. Overall, students will acquire a fuller understanding of the cultural and historical developments of black America as they relate to issues of social justice. (Same as ACES 170).

Prerequisite: Completion of ENGL101 with a grade of 2.0 or above is strongly recommended.

HUMAN 175–Politics and Literature
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - An examination of the central issues and concepts of politics through the perspective provided by great literature. Included will be the questions of authority, responsibility, freedom, and power. (Same as POLS 175)

HUMAN 201–Introduction to the Art of Film
Cr: 5 Wkly hrs: 5 hours Lecture
H - An introductory study of the narrative, visual and aural elements of film, including the cultural and social forces that create the variety of film styles. (Same as DRMA 201)

HUMAN 202–Literature and Film
Cr: 5 Wkly hrs: 5 hours Lecture
H - A survey of literary and film techniques and a comparison of verbal and visual languages.

HUMAN 203–Introduction to Western Religions
Cr: 5 Wkly hrs: 5 hours Lecture
H - Introduction to the study of religions, emphasizing the western religious traditions, including Judaism, Christianity and Islam.

HUMAN 204–Introduction to Eastern Religions
Cr: 5 Wkly hrs: 5 hours Lecture
H - A study of the major religions of Asia, emphasizing India, China, and Japan.

HUMAN 220–Introduction to Women’s and Gender Studies
Cr: 5 Wkly hrs: 5 hours Lecture
H - A survey of gender, gender identity, women, and feminism in American Culture and transnationally, history, literature, and the media. Students may receive credit for HUMAN 220 or HUMAN 320 but not both. The student expectations in HUMAN 320 are more rigorous than HUMAN 220.

HUMAN 235–Labor and Film
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - Using a combination of labor films and labor history, this course examines the role of unions in the United States and their trajectory of struggle for workers’ rights and welfare. (Same as POLS 235)

HUMAN 250–Major Film Directors and Works
Cr: 5 Wkly hrs: 5 hours Lecture
H - A study in-depth of one film director’s style, or selected major works by different directors. This is a writing course.

HUMAN 253–World War I in History and Literature
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - An interdisciplinary study of World War I, including a historical view of the causes, nature, and outcome of the war, and a literary/cultural view of the impact of The Great War. (Same as HIST 253)

HUMAN 257–Rock ‘N Roll: Music and Ideas
Cr: 5 Wkly hrs: 5 hours Lecture
H - A historical overview of the Rock ‘N Roll roots in the post-war world (1945-1985), with an emphasis on its role in social/cultural evolution and its contributions to American and world cultures.

HUMAN 284–Survey of World Lit–20th Century
Cr: 5 Wkly hrs: 5 hours Lecture
H - A survey of 20th Century literature from many countries. Covers literary genre, critical methodologies, and research. (Same as ENGL 284)

HUMAN 320–Introduction to Women’s and Gender Studies–Adv
Cr: 5 Wkly hrs: 5 hours Lecture
H - A survey of gender, gender identity, women, and feminism in American Culture and transnationally, history, literature, and the media. Students may receive credit for HUMAN 220 or HUMAN 320 but not both. The student expectations in HUMAN 320 are more rigorous than HUMAN 220.

Prerequisite: ENGL101 or the equivalent with a 2.0 or better.

Information Systems

IS 300–IS Foundations
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
This course forms the cohort and prepares students with the foundational topics used throughout the BAS program. It creates the required learning platform by focusing on four subject areas: SQL, Web, Programming and Networking. Students will work collaboratively to create, manipulate and query data, configure a Windows server, practice HTML5, CSS3 and JavaScript, and develop applications using server-side scripting.
Prerequisite: Acceptance into the BAS program

IS 302–Information Systems Integration
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
Students work collaboratively using divergent technologies to create a secure, self-hosted, database-driven website as a means to develop and hone skills, showcase incoming talents, and construct a working community for future projects used throughout the BAS program. Portfolio is introduced.
Prerequisite: Acceptance into the BAS program and co-enrollment in IS 300 or permission of instructor.

IS 305–Scripting for Automation
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
Students apply scripting languages to automate tasks, including those performed by applications, web pages, operating system shells, and embedded systems. General purpose and popular languages are explored and practiced for creating wrapper programs and custom commands, and performing networking tasks and unified queries.
Prerequisite: IS 300 with 2.0 or better or permission of instructor.

IS 330–Database & Data Analysis
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
Plan and design relational databases. Mine and analyze data using Structured Query Language (SQL) with real-world applications. Topics covered include: data modeling, data normalization and integrity, advanced queries, data manipulation, data analytics and functions, and tabular and graphical representation of analysis findings. Overview of data analytics, including issues of privacy and security. An introduction to NoSQL databases is included.
Prerequisite: IS 300 with 2.0 or better or permission of instructor.

IS 337–Information Assurance I
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
The student will develop and apply knowledge and skill in planning, designing and evaluating the structural components and procedures of organizational security and information assurance.
Prerequisite: Acceptance into the BAS program.

IS 346–LAN Administration IV
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
Students will focus on upper-administrator planning tasks for Windows Server 2008, choose the appropriate Windows Server solution for a design requirement, and perform domain- or forest-wide server administration tasks.
Prerequisite: IS 302 with 2.0 or better.

IS 350–Project Management I
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
Students learn the main phases, strategies and tools that support effective project management processes. The course covers all the stages of the project life cycle: including selecting projects, project planning, and risk assessment through execution, monitoring and control. Through case studies students have the opportunity to assess and apply best project management practices in the context of real-world scenarios.
Prerequisite: Acceptance into the BAS program.

IS 390–IS Reading and Research
Cr: 5 Wkly hrs: 2 hours Lecture, 6 hours Lab
Independently or in small teams, and mentored by a faculty member, students do intensive and self-directed research that results in an original scholarly paper or other product that can be formally presented. Students set goals and objectives that help form their own professional development strategy, and that clearly define the research project, reflect original research question(s), and deepen technical knowledge in specific area of interest.
Prerequisite: Acceptance into BAS program.
Intensive English

IE 001–English Fundamentals I: LN
Listening/Speaking
Cr: 3 Wkly hrs: 3 hours Lecture
An intensive academic English course designed for students with novice level listening and speaking skills. The course utilizes an ELL textbook and supplementary materials and emphasizes the development of basic word and sentence skills. (Formerly IE 091B)
Prerequisite: IE090B with a 2.0 or better or required ESL Accuplacer score or instructor permission.

IE 002–English Fundamentals II: LHN
Listening/Speaking
Cr: 3 Wkly hrs: 3 hours Lecture
An intensive academic English course designed for students with mid/high novice level listening and speaking skills. The course utilizes an ELL textbook and supplementary materials and emphasizes the application of basic grammar and vocabulary skills from the previous level as students continue to develop communicative competency. (Formerly IE 092C)
Prerequisite: IE 001 with a 2.0 or better or required ESL Accuplacer score or instructor permission.

IE 003–English Foundations: LI Listening/Speaking
Cr: 3 Wkly hrs: 3 hours Lecture
An intensive academic English course designed for students with low/mid level listening and speaking skills. The course utilizes an ELL textbook and supplementary authentic materials and emphasizes the development of foundational grammar and vocabulary skills and strategies as students begin working with more complex and unfamiliar topics and contexts. (Formerly IE 093C)
Prerequisite: IE 002 with a 2.0 or better or required ESL Accuplacer score or instructor permission.

IE 004–English Integration: LHI Listening/Speaking
Cr: 3 Wkly hrs: 3 hours Lecture
An intensive academic English course designed for students with mid/high intermediate level listening and speaking skills. The course utilizes an ELL textbook and supplementary authentic material and emphasizes the integration of guided and unguided note-taking skills as students plan, prepare and present information related to more complex academic topics. (Formerly IE 094C)
Prerequisite: IE 003 with a 2.0 or better or required ESL Accuplacer score or instructor permission.

IE 080–American Culture and Language
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
A P/NC 4-week English language course for non-native English speaking international students who want a short, non-intensive course to improve their English.
Prerequisite: Instructor permission.

IE 090A–Summer Intensive High-Intrmd/Advanced
Cr: 1-13 Wkly hrs: 13 hours Lecture
Summer Intensive for Intermediate and advanced students.
Prerequisite: Admission to the college and instructor permission.

IE 090B–Summer Intensive High-Intrmd/Advanced
Cr: 1-13 Wkly hrs: 13 hours Lecture
Summer Intensive for Intermediate and advanced students.
Prerequisite: Admission to the college and instructor permission.
IE 101—Intro College English LA Listening/Speaking  
Cr: 3  Wkly hrs: 3 hours Lecture  
An Intensive academic English course designed for students at an emerging advanced level in their listening and speaking skills. The course utilizes authentic listening texts related to various socio-cultural contexts and emphasizes note-taking skills to prepare students for discussions, debates and presentations on topics and issues selected for the course. (Formerly IE 100C)  
Prerequisite: IE 004 with a 2.0 or better or required ESL Accuplacer score or instructor permission.

Japanese  

JAPN&121—Japanese I  
Cr: 5  Wkly hrs: 5 hours Lecture  
H - Deals with the acquisition of elementary skills for listening, speaking, reading, and writing in Hiragana. Students comprehend and express basic Japanese in everyday situations. Cultural and historical aspects of Japan are covered.  

JAPN&122—Japanese II  
Cr: 5  Wkly hrs: 5 hours Lecture  
H - Deals with very basic vocabulary and the acquisition of basic skills for listening, speaking, reading, and writing in Hiragana, Katakana, and Kanji. Explores cultural aspects of Japan.  
Prerequisite: JAPN 121 or equivalent.

JAPN&123—Japanese III  
Cr: 5  Wkly hrs: 5 hours Lecture  
Prerequisite: JAPN 122 or equivalent.

Korean  

KREA&121—Korean I  
Cr: 5  Wkly hrs: 5 hours Lecture  
H - Novice mid/low level proficiency in speaking, listening, reading, and writing skills in modern Korean, based on ACTFL (American Council on the Teaching of Foreign Languages). Targeting students with no background in Korean, the course starts with Korean orthography and introduces basic functions and notions through highly productive formulaic phrases. It also introduces the history, geography, and various cultural practices of Korea.  

KREA&122—Korean II  
Cr: 5  Wkly hrs: 5 hours Lecture  
H - Novice high proficiency in speaking, listening, reading, and writing skills in modern Korean, based on ACTFL (American Council on the Teaching of Foreign Languages). Building upon learned content from KREA&121, the course develops basic literacy skills through authentic materials and deepens students’ understanding of the history, geography, current events, and various cultural practices of Korea.  
Prerequisite: KREA 121 or equivalent.

KREA&123—Korean III  
Cr: 5  Wkly hrs: 5 hours Lecture  
H - Intermediate mid/low level proficiency in speaking, listening, reading, and writing skills in modern Korean, based on ACTFL (American Council on the Teaching of Foreign Languages). Building upon learned content from KREA&121 & 122, the course develops a more sophisticated level of literacy through authentic materials and deepens students’ understanding of the history, geography, current events, and various cultural practices of Korea.  
Prerequisite: KREA&122 or equivalent.

Library Research  

LIB-R 110—Internet Research Skills  
Cr: 2  Wkly hrs: 2 hours Lecture  
An introduction to the Internet as an information resource and search tool for academic and personal use. It includes a brief history of the Internet, as well as Internet navigation techniques, search tools, website evaluation criteria, advanced searching strategies and ethical/legal issues involving the Internet. This course covers online resources such as websites, electronic databases, search engines, web portals, listservs, blogs, wikis, library catalogs, and the invisible web. (Formerly GEN-S 110).  

LIB-R 180—Research for the 21st Century  
Cr: 5  Wkly hrs: 5 hours Lecture  
Building skills and techniques for successful lifelong learning in an on-line environment, examining strategies for locating, evaluating, and applying information resources in the research process with attention to information policy issues such as censorship and freedom of information.  
Prerequisite: Eligibility for ENGL&101 and basic computer skills, such as e-mail, word processing.

Manufacturing  

MANU 101—Orientation to Manufacturing  
Cr: 2  Wkly hrs: 2 hours Lecture  
Overview of the manufacturing sector, including career exploration and local manufacturer presentations.  

MANU 115—Applied Fundamental Skills  
Cr: 5  Wkly hrs: 5 hours Lecture  
Manufacturing and trade-related concepts, math skills, language skills, academic success strategies, interpersonal skills, and career planning specific to manufacturing careers.  

MANU 120—Manufacturing Methodologies  
Cr: 5  Wkly hrs: 5 hours Lecture  
An introduction and survey of the concepts used in manufacturing, such as Lean, Green, and Just in Time.  

MANU 130—Machine Tools/Precision Measurement  
Cr: 6  Wkly hrs: 4 hours Lecture, 4 hours Lab  
Precision measurement methods and tools, identification and use of hand and machine tools, and industrial safety practices.

MANU 140—Machining Operations and Procedures  
Cr: 6  Wkly hrs: 5 hours Lecture, 2 hours Lab  
Identifed and practice common machining operations. Develop and expand machining knowledge, skills, and abilities. Perform process planning, quality assurance inspections, and lean mfg.  
Prerequisite: MANU 130 with a grade of 2.0  

MANU 150—Intro to Computer Numerical Control  
Cr: 6  Wkly hrs: 4 hours Lecture, 4 hours Lab  
Concepts/capabilities of Computer Numerical Control (CNC) machining. Basic programming, speeds, feeds, General & Misc. (G&M) codes, store and edit data.  
Prerequisite: MANU 130 with Grade 2.0 or better.

MANU 160—Advanced Computer Numerical Control  
Cr: 6  Wkly hrs: 4 hours Lecture, 4 hours Lab  
Expand knowledge, skills, and abilities in CNC operations. Identify the applications and capabilities of Computer Aided Manufacturing (CAM) software. Begin using and navigating the Mastercam software package.  
Prerequisite: Introduction to CNC (MANU 150) with a grade of 2.0 or better.

MANU 165—Computer Aided Manufacturing I  
Cr: 6  Wkly hrs: 4 hours Lecture, 4 hours Lab  
Enter level course for the use of Computer Aided Manufacturing (CAM) software as it pertains to the programming and operation of CNC machine tools.  
Prerequisite: MANU 160 with a grade of 2.0 or better.

MANU 172—Manufacturing Materials Fundamentals  
Cr: 4  Wkly hrs: 2 hours Lecture, 4 hours Lab  
Survey of materials typically found in aerospace, recreational, automotive, and construction industries, and how their mechanical, physical, and, chemical properties impact design, manufacturing, and performance requirements. Hands on labs will supplement the lectures giving students a broader understanding of materials and how they behave under different loading (thermal, mechanical, and environmental) conditions.  
Prerequisite: Successful completion of TEC-D 145 (or equivalent) with a grade of 2.0 or better.

MANU 180—Composites I  
Cr: 4  Wkly hrs: 4 hours Lecture  
Enter-level composite materials manufacturing course offering students a basic foundation in the vocabulary, safety procedures, applied problem solving, material properties, handling techniques, and fabrication methods associated with the fiber reinforced polymers found in aerospace, recreational, automotive, and medical industries.  
Prerequisite: Co-enrollment in MANU 181.

MANU 181—Composites I Lab  
Cr: 4  Wkly hrs: 8 hours Lab  
Enter-level composite materials manufacturing lab providing students a hands-on experience to the topics covered in MANU-180 Composite I.  
Prerequisite: Co-enrollment in MANU 180 or with the permission of the instructor.
MANU 185—Composites II
Cr: 3 Wkly hrs: 3 hours Lecture
Mid-Level composite materials manufacturing course, builds on the concepts of MANU 180 and MANU 181, offering students a more advanced foundation in the vocabulary, safety procedures, applied problem solving, material properties, handling techniques, and fabrication methods associated with advanced composite materials found in aerospace, recreational, automotive, and medical industries.
Prerequisite: Successful completion of MANU 101, MANU 180, and MANU 181 with a grade of 2.0 or better, AND Co-enrollment in MANU 186.

MANU 186—Composites II Lab
Cr: 5 Wkly hrs: 10 hours Lab
Mid-Level composite materials manufacturing lab providing students a hands-on experience to the topics covered in MANU 180 Composite II.
Prerequisite: Successful completion of MANU 101, MANU 180 and MANU 181 with a grade of 2.0 or better AND Co-enrollment in MANU 185.

MANU 210—Adv Intro to Manufacturing Processes
Cr: 3 Wkly hrs: 2 hours Lecture, 2 hours Lab
Advanced introduction to manufacturing processes, material fabrication, and nontraditional processing. Lectures will be supplemented with demonstrations and/or projects in the machine shop. The course is an alternative to MANU 101, and the course explores topics in greater depth than MANU 101.
Prerequisite: ENGR 270 or permission of instructor.

MANU 211—Adv CNC/Manual Manufacturing Process Lab
Cr: 3 Wkly hrs: 1 hours Lecture, 4 hours Lab
Manufacturing processes laboratory in CNC and manual machining, welding, and forming, including manufacturing projects. Develop advanced skills in manual machining and Computer Numerical Control (CNC). CNC skills include programming, set-up, and operation of CNC mills and lathes. Use Computer Aided Design (CAD) software to create solid models (3D computer models) and Computer Aided Manufacturing (CAM) software to generate G-Code programs for uploading to (and producing parts on) CNC machine tools. Significant class time will be spent in the machine shop, operating machine tools, completing assigned projects.
Prerequisite: MANU 210 or concurrent enrollment with MANU 210 or permission of instructor.

MANU 280—Composites III
Cr: 3 Wkly hrs: 3 hours Lecture
Advanced level composite materials manufacturing course, builds on the concepts of MANU 185 and MANU 186, to provide students with the knowledge and hands-on experience in the inspection and repair techniques of Advanced and Fiber Reinforced Polymer (FRP) composite materials. Real world labs will be assigned to student led teams preparing students for a career in the inspection and repair of composite material components found in aerospace, marine, recreational, automotive, and medical industries.
Prerequisite: Successful completion of TEC-D 107, MANU 130, MANU 175 or MANU 185 and MANU 186, with a grade of 2.0 or better, AND Co-enrollment in MANU 281.

MANU 281—Composites III Lab
Cr: 5 Wkly hrs: 10 hours Lab
Advanced level composite materials manufacturing lab providing students a hands-on experience to the topics covered in MANU 280 Composite III.
Prerequisite: Successful completion of MANU 175 or MANU 185, MANU 186, MANU 130, and TEC-D 107 with a grade of 2.0 or better, AND Co-enrollment in MANU 280.

MANU 285—Composites IV
Cr: 4 Wkly hrs: 8 hours Lab
Advanced lab course, expanding on the concepts of MANU 175 and 180, focused on the advanced manufacturing methods used in the fabrication of advanced composite material parts typically found in the found in aerospace, recreational, automotive, and medical industries. Each student will utilize the knowledge and experienced gained in previous courses to take a multi-week project from design to finished part with an emphasis on cost control, scheduling, quality, and communication.
Prerequisite: Successful completion of MANU 172, 180, 185, and 280 with a grade of 2.0 or better.

MANU 290—Capstone Project
Cr: 1-5 Wkly hrs: 2 hours Lecture, 6 hours Lab
Capstone course that allows students to integrate knowledge from previous classes and demonstrate this in a collaborative, team based, multi-discipline project, in which they design and document a product, and test that design through manufacturing when appropriate and a final project report. May be repeated for a maximum of 5 credits.
Prerequisite: Instructor permission.

Mathematics

MATH 090A—Essential Mathematics
Cr: 5 Wkly hrs: 5 hours Lecture
Concepts, calculations and applications of arithmetic; use of a calculator. (Formerly MATH 089)

MATH 090B—Prealgebra
Cr: 5 Wkly hrs: 5 hours Lecture
Prepares students for study of algebra. Includes signed numbers, variables, linear equations, area and perimeter, the linear system, and applications.
Prerequisite: MATH 090A within the last 6 years with a grade of 2.0 or above satisfactory placement test score.

MATH 092—Math Review
Cr: 5 Wkly hrs: 5 hours Lecture
Topics from MATH 090A, 090B, 094, or 099 appropriate to student level. (May be repeated for credit.)(Pass/No Credit)

MATH 094—Elementary Algebra
Cr: 5 Wkly hrs: 5 hours Lecture
First course in the sequence of Elementary Algebra and Intermediate Algebra. Basic algebra concepts, first-degree equations, polynomials, integer exponents, roots and radicals, word problems.
Prerequisite: MATH 090B within the last 6 years with a grade of 2.0 or above or satisfactory placement test score.

MATH 096—Descriptive Statistics with Algebra
Cr: 5 Wkly hrs: 5 hours Lecture
Topics include data analysis and techniques of descriptive statistics with supporting Algebra content. Prep for Math 136.
Prerequisite: Math 090B with a grade of 2.5 or above (or Math 094 with a grade of 2.0 or above) within the last 6 years, or satisfactory placement test score.

MATH 098—Elem/Intermediate Algebra for LibArts
Cr: 5 Wkly hrs: 5 hours Lecture
Beginning and intermediate algebra for Math in Society. Algebraic expressions, rational and negative exponents, radical and rational expressions and equations, linear and quadratic equations, graphs and applications.
Prerequisite: MATH 090B within the last 6 years with a grade of 2.0 or above or satisfactory placement test score.

MATH 098I—Integrated Inter Algebra for MATH107
Cr: 3 Wkly hrs: 3 hours Lecture
Part of IMATH course offering only. Algebraic expressions, rational and negative exponents. Radical and rational expressions and equations, linear and quadratic equations, graphs and application.
Prerequisite: MATH 094 with a grade of 2.0 or above within the last 2 years or satisfactory placement test score.

MATH 099—Intermediate Algebra
Cr: 5 Wkly hrs: 5 hours Lecture
Second course in the sequence of Elementary Algebra and Intermediate Algebra. Graphing linear and quadratic functions; systems of equations; rational expressions; radical expressions and rational exponents. A scientific calculator is required.
Prerequisite: MATH 094 or MATH 098I within the last 6 years with a 2.0 or above or satisfactory placement test score.

MATH 099I—Integrated Inter Algebra for MATH141
Cr: 3 Wkly hrs: 3 hours Lecture
Part of IMATH course offering. Linear and quadratic equations; systems of linear equations; rational and radical expressions and equations.
Prerequisite: MATH 094 with a grade of 3.5 or above within the last 2 years or MATH 099 with a grade of 2.0 or above within the last 2 years or satisfactory placement test score.

MATH 100—Applied Math
Cr: 5 Wkly hrs: 5 hours Lecture
Integrated presentation of topics in arithmetic, algebra and geometry; problem-solving, estimation, use of right triangle relationships; applications of math in practical workplace-related problems.
Prerequisite: MATH 094 within the last 6 years with a grade of 2.0 or above, or satisfactory placement test score.

MATH 103—Applied Trigonometry
Cr: 5 Wkly hrs: 5 hours Lecture
Plane trigonometry for technical programs including trigonometric functions, inverse functions, right and oblique triangles, radians, identities and graphing trigonometric functions.
Prerequisite: MATH 100 or 099 within the last 6 years with a grade of 2.0 or above, or satisfactory placement test score.
Course Descriptions

<table>
<thead>
<tr>
<th>MATH107–Math in Society</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - Topics relevant to Liberal Arts majors, including the following: Mathematical Models (Linear and Exponential) as tools for solving real-world problems. Probability as a tool for making informed decisions. Basic descriptive statistics as an introduction to statistical thinking. Consumer Mathematics (loans, annuities, etc.) as a life skill.</td>
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<tr>
<td>Prerequisite: MATH 099, MATH 099I, or MATH 099 within the last 6 years with a grade of 2.0 or above, or satisfactory placement test score, or co-enrollment in MATH 099I.</td>
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<tr>
<th>MATH 112–Mathematics and the Environment</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - Real-life data relating to environmental issues are studied using linear, exponential and power functions, and elementary statistics.</td>
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<tr>
<td>Prerequisite: MATH 099 within the last 6 years with a grade of 2.0 or above or satisfactory placement test score.</td>
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<tr>
<th>MATH131–Math for Elem Educ 1</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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</thead>
<tbody>
<tr>
<td>NS - First course for elementary teachers. Emphases: math reasoning, problem solving, sets, real number system, number theory, Scientific calculator: fraction ability/statistical operations required. (Formerly MATH 166)</td>
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<tr>
<td>Prerequisite: MATH 099 or MATH 099I within the last 6 years with a grade of 2.0 or above, or satisfactory placement test score.</td>
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<tr>
<th>MATH132–Math for Elem Educ 2</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - Second in a sequence for elementary teachers. Topics: geometry, probability, statistics. Emphases: representations, concepts, spatial reasoning. Calculator with statistical operations required. (Formerly MATH 167)</td>
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<tr>
<td>Prerequisite: MATH 131 within the last 6 years with a grade of 2.0 or above, or satisfactory placement test score.</td>
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<tr>
<th>MATH 136–Inferential Statistics</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tr>
<td>NS - Techniques of Inferential Statistics including Confidence Intervals and Hypothesis Testing for one or two sample proportions and means.</td>
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<tr>
<td>Prerequisite: MATH 096 within the last 6 years with a grade of 2.0 or above.</td>
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<tr>
<th>MATH141–Precalculus I: Algebra</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - Using numeric, analytic and graphical methods, linear, polynomial, rational, exponential, and logarithmic functions are studied. A graphing calculator is required (TI demonstrated). (Formerly MATH 119)</td>
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<tr>
<td>Prerequisite: MATH 099 or MATH 099I within the last 6 years with a grade of 2.0 or above, satisfactory placement test score, or co-enrollment in MATH 099I.</td>
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<tr>
<th>MATH 142–Precalculus II: Trig</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - Using numeric, analytic, and graphical methods, trigonometric functions and polar and parametric equations are studied. (Graphing calculator is required. TI is preferred and demonstrated). (Formerly MATH 120)</td>
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<tr>
<td>Prerequisite: MATH 141 within the last 6 years with a grade of 2.0 or above, or satisfactory placement test score.</td>
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<tr>
<th>MATH143–Precalculus I &amp; II</th>
<th>Cr: 10</th>
<th>Wkly hrs: 10 hours Lecture</th>
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<tbody>
<tr>
<td>NS - An accelerated combination of MATH&amp; 141 and MATH&amp; 142, allowing the better prepared student to complete the precalculus preparation in one quarter rather than two. Topics include polynomial, rational, exponential, logarithmic, and trigonometric functions, vectors and parametric equations. A graphing calculator is required. Students completing MATH 143 may not receive graduation credit for MATH&amp; 141 and/or MATH&amp; 142. (Formerly MATH&amp; 144)</td>
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<tr>
<td>Prerequisite: Satisfactory placement test score.</td>
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<tr>
<th>MATH&amp;146–Intro to Statistics</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - Application of statistics in the context of various fields; descriptive statistics, linear correlation and regression, probability, sampling, the Normal Distribution, confidence intervals, hypothesis testing. (Formerly MATH 281) Note: prerequisite Intermediate Algebra courses must have been taken within the last six years, placement tests within the last two years.</td>
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<tr>
<td>Prerequisite: MATH 099, MATH 098, MATH 099I, or MATH 099I within the last 6 years with a grade of 2.0 or above, or satisfactory placement test score.</td>
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<tr>
<th>MATH 147–Business Algebra</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - First in a two quarter sequence of algebra and calculus focusing on applications in business and economics; functions, including exponential and logarithmic and their graphs; financial formulas, systems of equations, linear programming. Requires use of a graphing calculator. (Formerly MATH 156)</td>
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<tr>
<td>Prerequisite: MATH 099 or MATH 099I within the last 6 years with a grade of 2.0 or above, or satisfactory placement test score.</td>
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<tr>
<th>MATH&amp;148–Business Calculus</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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</thead>
<tbody>
<tr>
<td>NS - Second in a two-quarter sequence of algebra and calculus focusing on applications in business and economics; differentiation and integration, optimization, applications; partial derivative. Requires use of a graphing calculator. (Formerly MATH 157)</td>
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<tr>
<td>Prerequisite: MATH 147 or MATH&amp; 141 within the last 6 years with a grade of 2.0 or above, or satisfactory placement.</td>
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<tr>
<th>MATH&amp;151–Calculus I</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - Functions, limits and continuity; the derivative, definition, rules and applications; implicit differentiation; antiderivatives; optimization. (Formerly MATH 124)</td>
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<tr>
<td>Prerequisite: MATH&amp; 142 or MATH&amp; 143 within the last 6 years with a grade of 2.0 or above, or satisfactory placement test score.</td>
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<tr>
<th>MATH&amp;152–Calculus II</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - Definite integrals, techniques of integration, numerical approximation, applications of integration, differential equations: Separable, growth and decay applications. (Formerly MATH 125)</td>
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<tr>
<td>Prerequisite: MATH&amp; 151 with a grade of 2.0 or above.</td>
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<tr>
<th>MATH&amp;163–Calculus 3</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - Series, functions of two variables and their graphs, contour diagrams, vector algebra, dot and cross products, multivariable functions, partial differentiation. (Formerly MATH 126)</td>
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<tr>
<td>Prerequisite: MATH&amp; 152 with a grade of 2.0 or above.</td>
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<tr>
<th>MATH 210–Introduction to Discrete Mathematics</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tr>
<td>NS - Basic logic, number theory, sequences and series, induction. Counting: permutations, combinations, probability, and binomial theorem.</td>
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<tr>
<td>Prerequisite: MATH&amp; 142 or MATH&amp; 144 with grade of 2.0 or better.</td>
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<tr>
<th>MATH 221–Differential Equations I</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - First order differential equations. Second order linear equations. Series solutions of second order equations, the Laplace transform, numerical methods, and applications with emphasis in Physics and Engineering.</td>
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<tr>
<td>Prerequisite: MATH&amp; 163 with a grade of 2.0 or above.</td>
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<tr>
<th>MATH 222–Differential Equations II</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - A second course in differential equations including systems of 1st order linear equations, nonlinear equations, partial differential equations, Fourier Series, boundary value problems.</td>
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<tr>
<td>Prerequisite: MATH 221 and MATH 250 with a grade of 2.0 or above.</td>
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<tr>
<th>MATH 240–Discrete Structures</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
</tr>
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<tbody>
<tr>
<td>NS - Fundamentals of logic and writing proofs, sets, functions, number theory, combinatorics, probability, relations, graphs and trees. (Same as CS 240)</td>
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<tr>
<td>Prerequisite: MATH&amp; 163 with grade of 2.0 or better.</td>
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<tr>
<th>MATH 250–Linear Algebra</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - Systems of linear equations, vector spaces and subspaces, inner product spaces, orthogonality, least squares, determinants, eigenvalues, eigenvectors, linear transformations, and applications including systems of 1st order linear differential equations and linear operators on the plane.</td>
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<tr>
<td>Prerequisite: MATH&amp; 163 with a grade of 2.0 or above, or permission of instructor.</td>
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<tr>
<th>MATH&amp;264–Calculus 4</th>
<th>Cr: 5</th>
<th>Wkly hrs: 5 hours Lecture</th>
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<tbody>
<tr>
<td>NS - Gradients, directional derivatives, optimization, local and global extrema, multiple integrals, vector fields, line integrals, flux integrals, calculus of vector fields, divergence and curl of a vector field, Stokes’ Theorem, Green’s Theorem, The Divergence Theorem. (Formerly MATH 220)</td>
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<tr>
<td>Prerequisite: MATH&amp; 163 with a grade of 2.0 or above.</td>
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Medical Assisting

MEDA 109–Healthcare Calculations
Cr: 2 Wkly hrs: 2 hours Lecture
Math as used in ambulatory healthcare. Dosage calculations, reference ranges, temperature conversions, growth charts and use of the metric system.
Prerequisite: Accuplacer test scores which place the student into MATH 099 or completion of MATH 094 with a 2.0 or higher.

MEDA 112–Med Law, Ethics and Bioethics
Cr: 3 Wkly hrs: 3 hours Lecture
Medical law, ethics and bioethics as related to the ambulatory care setting, including legal terminology, professional liability.

MEDA 113–Pharmacology for Medical Assisting
Cr: 2 Wkly hrs: 1 hours Lecture, 2 hours Lab
Overview of drug therapy and theory relative to medical assisting. Oral and parenteral medication administration techniques and practice included.
Prerequisite: Completion of MEDA 109 and MEDA 136 with minimum grade of 2.5 in both classes and acceptance into the MEDA program.

MEDA 114–Coding/Alternative Health Settings
Cr: 3 Wkly hrs: 3 hours Lecture
Introduction to specialized billing and coding rules that apply to alternative settings such as dental offices, home health, hospice, long term care and chemical dependency facilities.
Prerequisite: Completion of or concurrent enrollment in MEDA 205.

MEDA 115–Computers in the Medical Office
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
Using medical administrative software, students will learn to complete various administrative tasks necessary for working as medical billers and/or coders.
Prerequisite: MEDA 120 and BSTEC 110 with a 2.5 or higher. Accuplacer scores must place student above MATH 094 or students must complete MATH 094 with at least a 2.0.

MEDA 116–Pharmacology for Reimbursement
Cr: 2 Wkly hrs: 2 hours Lecture
Introduction to basic pharmacology principles, terminology, and billing principles as needed for reimbursement.
Prerequisite: Concurrent enrollment or completion of MEDA 131 and MEDA 163 with a grade of 2.5 or above.

MEDA 117–Healthcare Customer Service
Cr: 3 Wkly hrs: 3 hours Lecture
Customer service skills and their application to working with patients and others in a medical facility.

MEDA 118–Ten-Key Skills
Cr: 1 Wkly hrs: 2 hours Lab
Using a web-based 10-key program, students will learn to use the numeric keypad with speed and accuracy.

MEDA 120–Medical Office Procedures I
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
Introduction to software, accounts receivable procedures, professionalism and record management in the medical office.
Prerequisite: Completion of CIS 150 with minimum grade of 2.5 and ability to type 30wpm and completion of MEDA 162 with a minimum grade of 2.5.

MEDA 121–Medical Office Procedures II
Cr: 4 Wkly hrs: 4 hours Lecture, 2 hours Lab
General medical office procedures; emphasis on use of electronic medical records and appointment scheduling.
Prerequisite: Completion of MEDA 120 with a minimum grade of 2.5.

MEDA 130–Anatomy/Physiology & Pathophysiology I
Cr: 5 Wkly hrs: 4 hours Lecture, 2 hours Lab
Principles of Anatomy and Physiology, along with the Pathophysiology as it relates to ambulatory healthcare settings. This is the first of two classes of Anatomy/Physiology & Pathophysiology. Body structure, organization, and physiology, along with symptoms, causes and treatment modalities for diseases will be examined. Some practical diagnostic testing and lab experiences are included to enhance lecture materials.
Prerequisite: Accuplacer results placing student into ENGL&101 or completion of ENGL 99 with a grade of 2.0 or higher.

MEDA 131–Anatomy/Physiology & Pathophysiology II
Cr: 4 Wkly hrs: 4 hours Lecture
Principles of Anatomy and Physiology, along with the Pathophysiology as it relates to ambulatory healthcare settings. This is the second of two classes of Anatomy/Physiology & Pathophysiology. Body structure, organization, and physiology, along with symptoms, causes and treatment modalities for diseases will be examined.
Prerequisite: MEDA 130 with grade of 2.5 or better.

MEDA 136–Examination Room Techniques
Cr: 5 Wkly hrs: 2 hours Lecture, 6 hours Lab
Intro to basic examination room techniques, including vital signs and documentation. Patient prep, physical environment safety and maintenance of supplies and equipment.
Prerequisite: MEDA 110 with a minimum grade of 2.5 and MEDA 162 with a minimum grade of 2.5 and acceptance into the MEDA program.

MEDA 137–Lab Procedures for Medical Assisting
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
Basic lab introduction, OSHA, CLIA, infection control, microbiology principles, specimen collection, hematology, serology, urinalysis, blood chemistry, venipuncture, x-ray principles.
Prerequisite: MEDA 136, MEDA 162, complete MEDA course application on file. Students completing the MEDA Certificate program over 2 years must take this course during the second year.

MEDA 140–Medical Receptionist Skills
Cr: 2 Wkly hrs: 2 hours Lecture
Oral, written and telephone skills development appropriate to a medical receptionist setting. Emphasis on professional attributes and job search readiness.

MEDA 141–Medical Receptionist Externship
Cr: 3 Wkly hrs: 9 hours Clinic
Students are placed in approved medical facilities for a supervised, unpaid front office experience as final preparation for working as a Medical Receptionist.
Prerequisite: Medical Receptionist students must have completed at least half of the certificate curriculum. MEDA 140, MEDA 120 and MEDA 180 must have been completed with a GPA of 2.5. PE ED 109 must also have been completed. Permission of the instructor is necessary. Students must complete an application packet, including a background check prior to enrollment. A positive background check may prohibit placement in a healthcare facility for the externship.

MEDA 151–MEDA Professional Preparation I
Cr: 1 Wkly hrs: 1 hours Lecture
Discussion of the personal attributes, work setting, skills and responsibilities of a Medical Assistant. Investigation of the scope of practice defined by local and national regulations. Introduction to time management theory, therapeutic patient interaction techniques and critical thinking skills.

MEDA 152–MEDA Professional Preparation II
Cr: 1 Wkly hrs: 1 hours Lecture
Skills and techniques necessary to effectively function as an administrative medical assistant working in a medical setting. Emphasis on effective communication skills.
Prerequisite: MEDA 151 with a minimum grade of 2.5.

MEDA 153–MEDA Professional Preparation III
Cr: 1 Wkly hrs: 1 hours Lecture
Study of employment opportunities in the Medical Assisting field with emphasis on the professional responsibilities of Medical Assisting. Emphasis on job search readiness.
Prerequisite: MEDA 152 with a minimum grade of 2.5.

MEDA 162–Medical Terminology
Cr: 5 Wkly hrs: 5 hours Lecture
The roots, suffixes, prefixes, abbreviations, and combining forms used in medical terminology and their application to all body systems. Intro to medical specialties.
Prerequisite: Accuplacer test scores which place the student into ENGL&101 or higher. Alternatively, completion of ENGL 99 with a grade of 2.0 or higher.

MEDA 163–Medical Insurance Billing
Cr: 3 Wkly hrs: 3 hours Lecture
Introduction to medical insurance, billing and coding.
Prerequisite: Completion of or current enrollment in MEDA 162.

MEDA 164–Coding in Outpatient Settings
Cr: 3 Wkly hrs: 3 hours Lecture
Medical coding for various outpatient settings, including coding from reports and application of coding guidelines for third-party payers.
Prerequisite: Completion of MEDA 162; completion of MEDA 205 or concurrent enrollment.

MEDA 168–Medical Assisting Invasive Procedures
Cr: 2 Wkly hrs: 1 hours Lecture, 2 hours Lab
Introduction to invasive procedures necessary for Medical Assistants. Includes concepts of asepsis, venipuncture, skin punctures and injections.
Prerequisite: MEDA 110 and MEDA 162 with a 2.5 or higher and acceptance into the Medical Assisting program.
Course Descriptions

MEDA 180–AIDS/HIV/Blood Borne Pathogens
Cr: 1 Wkly hrs: 1 hours Lecture
Meets WA State requirement for professional license in health occupations, and AIDS Omnibus Bill 1988 components for 7 hours education on HIV/AIDS and OSHA Blood Borne Pathogens standard. (Pass/No Credit)

MEDA 199–Practicum
Cr: 1-5 Wkly hrs: 10 hours Lab
Course can be offered as: MEDA 199/299.
Prerequisite: Completion of all required courses in the Medical Assisting program with a 2.5 or above in required to start the practicum.

MEDA 200–Medical Reimbursement Issues for Ambulatory Sett
Cr: 2 Wkly hrs: 2 hours Lecture
Introduction to billing principles which are key to maximum reimbursement. Focuses on Medicare regulations and how they impact physician payment, auditing of claims' documentation, analysis of denied claims, and how to appeal claims denial. Current billing practices will be reviewed.
Prerequisite: Instructor permission required.

MEDA 205–Medical Claims and Coding
Cr: 2 Wkly hrs: 1 hours Lecture, 2 hours Lab
Advanced CPT and ICD-9-CM coding for maximum reimbursement for physicians' offices and clinics. Preparation of CMS-1500 and UB-04 forms.
Prerequisite: MEDA 163 with a 2.5 or higher.

MUSC 101–Fundamentals of Music
Cr: 5 Wkly hrs: 5 hours Lecture
NS - Study of atmospheric components, processes, and weather phenomena. Attention to measurement instruments, maps, and satellite images, including those on the Internet.
Prerequisite: ENGL 099 and MATH 094 must be passed with a 2.0 or better.

MUSC 105–Music Appreciation
Cr: 5 Wkly hrs: 5 hours Lecture
H - Study of basic elements of music theory; to include but not limited to notation of music, key signatures, chords, scales, rhythms.

MUSC 106–Vocal Jazz Ensemble I (Jazzline)
Cr: 3 Wkly hrs: 1 hours Lecture, 4 hours Lab
H/SP - Course can be offered as: MUSC 106/107/108 and 206/207/208.
Prerequisite: Audition.

MUSC 117–Symphony Orchestra
Cr: 1 Wkly hrs: 2 hours Lab
H/SP - Course can be offered as: MUSC 117/118/119 and 217/218/219.
The study and performance of representative orchestral works of all style periods. A college and community orchestra. Approximately eight performances per year.
Prerequisite: Audition.

MUSC 120–Opera Production
Cr: 2 Wkly hrs: 2 hours Lecture, 2 hours Lab
H/SP - Course can be offered as: MUSC 120/121/122 and 220/221/222.
Rehearsal and performance of an opera or light opera. Performances will be fully staged and costumed and will be open to the public.
Prerequisite: Permission of instructor.

MUSC 123–Chamber Choir
Cr: 2 Wkly hrs: 2 hours Lecture
H/SP - Course can be offered as: MUSC 123/124/125 and 223/224/225.
Advanced study and performance of choral works of all musical style periods.
Prerequisite: Audition only.

MUSC 124–Chamber Choir
Cr: 2 Wkly hrs: 2 hours Lecture
H/SP - Course can be offered as: MUSC 123/124/125 and 223/224/225.
Advanced study and performance of choral works of all musical style periods.
Prerequisite: Audition only.

MUSC 125–Chamber Choir
Cr: 2 Wkly hrs: 2 hours Lecture
H/SP - Course can be offered as: MUSC 123/124/125 and 223/224/225.
Advanced study and performance of choral works of all musical style periods.
Prerequisite: Audition only.

MUSC 133–Beginning Class Piano
Cr: 2 Wkly hrs: 2 hours Lecture
H/SP - Course can be offered as: MUSC 133/134/135.
Group and individualized instruction in keyboard techniques. Music theory and finger techniques taught and applied through piano performance.

MUSC 136–Class Guitar
Cr: 2 Wkly hrs: 2 hours Lecture
H/SP - Course can be offered as: MUSC 136/137/138 and 236/237/238.
Group instruction in guitar techniques. Music theory and elementary repertoire from various playing styles will be utilized. Student provides own instrument.

*See course description for prerequisite.
MUSC&141–Music Theory I
Cr: 5 Wyk hrs: 5 hours Lecture
H - A thorough overview of the fundamentals of music, pitch, harmony and rhythm. (Formerly MUSIC 180)

MUSC&142–Music Theory II
Cr: 5 Wyk hrs: 5 hours Lecture
H - Extensive study of the basic elements of music and performance, chord structure, scales, harmonic analysis, rhythm-meter, and aural skills. (Formerly MUSIC 181)
Prerequisite: MUSC& 141.

MUSC&143–Music Theory III
Cr: 5 Wyk hrs: 5 hours Lecture
H - Extensive study of chromaticism in the diatonic structure of music and performance, chord structure, scales, harmonic analysis, rhythm-meter, and aural skills. (Formerly MUSIC 182)
Prerequisite: MUSC& 142.

MUSC 144–Wind Ensemble
Cr: 2 Wyk hrs: 1 hours Lecture, 2 hours Lab H/SP - Course can be offered as MUSC 144/145/146 and 244/245/246. Rehearsal and performance of chamber/wind literature from classical through contemporary mediums. Open to all students and community members, based upon ability.

MUSC 185–Music in Film and Television
Cr: 5 Wyk hrs: 5 hours Lecture
H - This course is an exploration of music in film and television. Students will develop and demonstrate methods for analyzing what they hear, leading to the recognition of the unique compositional styles of various film and television music composers. Students will trace the evolution of music in film and television to the present day encompassing Hollywood films, Independent, and International films and respective composers.

MUSC 188–Introduction to World Music
Cr: 5 Wyk hrs: 5 hours Lecture
H - An exploration of traditional and urban ethnic music of selected cultures of the world.

MUSC 189–Introduction to Jazz History
Cr: 5 Wyk hrs: 5 hours Lecture
H - A survey of the ethnic sources of jazz and influences on art and pop music of the U.S. and the world.

MUSC 199–Practicum
Cr: 1-5 Wyk hrs: 10 hours Lab
A practical application in the working world of the basic theories studied in the above program or discipline.

MUSC 223–Chamber Choir
Cr: 2 Wyk hrs: 2 hours Lecture
H/SP - Course can be offered as: MUSC 123/124/125 and 223/224/225. Advanced study and performance of choral works of all musical style periods.
Prerequisite: Audition only.

MUSC 233–Intermediate Class Piano
Cr: 2 Wyk hrs: 2 hours Lecture
H/SP - Course can be offered as: MUSC 233/234/235. Group and individualized instruction in keyboard techniques. Music theory and finger techniques taught and applied through piano performance.
Prerequisite: Permission of instructor and/or MUSC 133/134/135.

MUSC 239–Jazz Musicianship I
Cr: 4 Wyk hrs: 4 hours Lecture
H - Extensive study of the basic elements of jazz music and performance. Jazz scales and their use, chord structure, rhythmic structure, and aural skills will be covered.

MUSC 240–Jazz Musicianship II
Cr: 4 Wyk hrs: 4 hours Lecture
H - Extensive study of the basic elements of jazz music and performance. Jazz scales and their use, chord structure, rhythmic structure, and aural skills will be covered.
Prerequisite: MUSC 239.

MUSC241–Music Theory IV
Cr: 5 Wyk hrs: 5 hours Lecture
H - Discovery of chromatic harmony in the common practice period through analysis, composition, and performance. (Formerly MUSIC 280)
Prerequisite: MUSC& 143.

MUSC242–Music Theory V
Cr: 5 Wyk hrs: 5 hours Lecture
H - Discovery of style of the 18th Century baroque through analysis, composition and performance. (Formerly MUSIC 281)
Prerequisite: MUSC& 143.

MUSC243–Music Theory VI
Cr: 5 Wyk hrs: 5 hours Lecture
H - Discovery of style of the 20th and 21st Century through analysis, composition, and performance. (Formerly MUSIC 282)
Prerequisite: MUSC& 143.

Private Music Lessons:
Cr: .5-1 Wyk hrs: 1 hours Lecture
H/SP - Individual instruction. Each course may be taken for up to 6 credits. Prerequisite: Permission of instructor.

P-MUS 101-103, 201-203–Electric Bass
(Formerly MUSC 147A)
P-MUS 105-107, 205-207–Piano
(Formerly MUSC 147B)
P-MUS 111-113, 211-213–Voice
(Formerly MUSC 147C)
P-MUS 115-117, 215-217–String Instruments
(Formerly MUSC 147D)
P-MUS 121-123, 221-223–Saxophone/Clarinet
(Formerly MUSC 147E)
P-MUS 125-127, 225-227–Brass Instruments
(Formerly MUSC 147F)

P-MUS 131-133, 231-233–Percussion Instruments
(Formerly MUSC 147G)
P-MUS 135-137, 235-237–Classical Guitar
(Formerly MUSC 147H)
P-MUS 141-143, 241-243–Guitar
(Formerly MUSC 147I)
P-MUS 145-147, 245-247–Clarinet/Low Woodwinds
(Formerly MUSC 147J)
P-MUS 151-153, 251-253–Low Brass
(Formerly MUSC 147K)
P-MUS 155-157, 255-257–Flute
(Formerly MUSC 147M)
P-MUS 161-163, 261-263–Jazz Piano
(Formerly MUSC 147P)
P-MUS 165-167, 265-267–Composition/Arranging
(Formerly MUSC 147Q)

Nursing ADN
(Associate Degree Nursing)
NURSE 102–PubMed/CINAHL Database Search Skills
Cr: 2 Wyk hrs: 2 hours Lecture
A course which prepares the health-care provider to identify and use evidence-based research and perform in-depth health literature database searches in CINAHL and PubMed using controlled vocabularies.

NURSE 110–Professional Role Development I
Cr: 2 Wyk hrs: 2 hours Lecture
Introduction to the professional concepts of nursing including concept mapping, role of the student nurse, legal issues, critical thinking and learning styles. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Admission to the Nursing Program; successful completion of or concurrent enrollment in NURSE 114, 140, 144, 146, 151, 152, 154 and 156.

NURSE 112–Professional Role Development II
Cr: 1 Wyk hrs: 1 hours Lecture
Examines professional nursing concepts including the role of the nurse, inter-disciplinary relationships, and the nursing process. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation in the Nursing Program; successful completion of or concurrent enrollment in NURSE 116, 118, 142, 158,160, and 182.

NURSE 114–Nursing Communications
Cr: 2 Wyk hrs: 2 hours Lecture
An introduction to the Nurse/Client relationship, principles of communication and interviewing, assertiveness, and stress and adaptation. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Admission to the Nursing Program; successful completion of or concurrent enrollment in NURSE 110, 140, 144, 146, 151, 152, 154, and 156.

NURSE 116–Nursing Ethics I
Cr: 1 Wyk hrs: 1 hours Lecture
Beginning concepts of ethical reasoning, including the values, principles, and guidelines on which nurses base ethical decision-making. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation in the Nursing Program; successful completion of or concurrent enrollment in NURSE 112, 118, 142, 158,160, and 182.

*See course description for prerequisite.

Course Descriptions

Nurse 102–PubMed/CINAHL Database Search Skills

Nurse 110–Professional Role Development I

Nurse 112–Professional Role Development II

Nurse 114–Nursing Communications

Nurse 116–Nursing Ethics I
COURSE NOTES: H=Humanities, S=Social Science, N=Natural Science, SS=Skills Performance

COURSE: NURSING

NURSE 118–Nutrition for Professional Nursing
Cr: 2 Wkly hrs: 2 hours Lecture
Professional nurse's role in nutritional assessment, client evaluation, dietary requirements for wellness and modifications for physical conditions throughout the lifespan. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation in the Nursing Program; successful completion of or concurrent enrollment in NURSE 112, 116, 142, 153, 160, and 182 or permission of instructor.

NURSE 140–Clinical Applications Lab I
Cr: 1 Wkly hrs: 2 hours Lab
First in a series of 3 classes. Students learn and demonstrate, verbalize, and document direct nursing skills within a faculty-facilitated laboratory environment. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Admission to the Nursing Program; successful completion of or concurrent enrollment in NURSE 110, 114, 144, 146, 151, 152, 154, and 156.

NURSE 142–Clinical Applications Lab II
Cr: 1 Wkly hrs: 2 hours Lab
This course prepares students to perform skills necessary for care of clients in acute and long term care facilities. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation in the Nursing Program; successful completion of or concurrent enrollment in NURSE 112, 116, 118, 158, 160, and 182.

NURSE 144–Physical Assessment in Nursing Lab
Cr: 1 Wkly hrs: 2 hours Lab
The course provides the foundation for performing physical assessments, the basis of nursing decisions and actions. Assessment principles and their role in nursing process are stressed. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Admission to the Nursing Program; successful completion of or concurrent enrollment in NURSE 110, 114, 140, 146, 151, 152, 154, and 156.

NURSE 146–Nursing Care of the Older Adult
Cr: 1 Wkly hrs: 1 hours Lecture
Introduces students to the growth, development, cognitive and physiological changes of the older adult. The concept of ageism and theory regarding dementia will be introduced. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Admission to the Nursing Program; successful completion of or concurrent enrollment in NURSE 110, 114, 140, 144, 151, 152, 154, and 156.

NURSE 151–Dosage Calculations
Cr: 1 Wkly hrs: 1 hours Lecture
Mathematical computations used for medication administration and intravenous therapy in clinical practice. Minimum grade of 3.7 required for Nursing Program continuation.
Prerequisite: Completion of BIOL & 241 with a 2.0 or higher.

NURSE 152–Introduction to Pharmacology
Cr: 1 Wkly hrs: 1 hours Lecture
Examines the basics of clinical pharmacology. Minimum grade of 2.2 (80%) required for continuation in nursing program.
Prerequisite: Completion of BIOL & 241 with a 2.0 or higher.

NURSE 154–Nursing Foundations
Cr: 3 Wkly hrs: 3 hours Lecture
Introduces Nursing Students to the conceptual underpinnings needed to develop a personal and professional Nursing theoretical framework, focusing on well clients and maximizing the health potential of clients in their environment. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Admission to the Nursing Program; successful completion of or concurrent enrollment in NURSE 110, 114, 140, 144, 146, 151, 152, and 156.

NURSE 156–Clinical Nursing Practice I
Cr: 3 Wkly hrs: 6 hours Lab
Student will develop professional relationships, critical thinking, and nursing assessment abilities. Emphasis on verbal/written documentation using appropriate medical language/theory. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Admission to the Nursing Program; successful completion of or concurrent enrollment in NURSE 110, 114, 140, 144, 146, 151, 152, and 154.

NURSE 158–Clinical Nursing Therapeutics
Cr: 4 Wkly hrs: 4 hours Lecture
Introduces concepts for promoting healthy physiological responses in clients. A nursing process framework will be utilized to foster critical thinking in the nursing role. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation in the Nursing Program; successful completion of or concurrent enrollment in NURSE 112, 116, 118, 142, 160, and 182.

NURSE 160–Clinical Nursing Practice II
Cr: 5 Wkly hrs: 10 hours Lab
Will provide experiences with clients who have alterations in basic physiological functioning. Emphasis on utilizing the nursing process and evidence based nursing interventions. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation in the Nursing Program; successful completion of 1st year fall quarter nursing courses and concurrent enrollment in NURSE 112, 116, 118, 142, 158, and 182.

NURSE 172–Mental Health Theory
Cr: 3 Wkly hrs: 3 hours Lecture
Presents the nurse's role in assessing and intervening with clients who, as a result of a mental illness, have alterations in mood, personal identity, and coping. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation in the Nursing Program; successful completion of 1st year winter quarter nursing courses; concurrent enrollment or successful completion of NURSE 174, 180, 181, and 202.

NURSE 174–Mental Health Clinical
Cr: 3 Wkly hrs: 6 hours Lab
Students will apply the nursing process, crisis intervention, and therapeutic communication techniques in caring for clients with alterations in mental health. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation enrollment in the Nursing Program. Successful completion of or concurrent enrollment in NURSE 172, 180, 181, and 202.

NURSE 176–Nursing Care of Pediatric Clients
Cr: 3 Wkly hrs: 3 hours Lecture
Prepares students to care for pediatric clients, focusing on promotion and maintenance of family health, related to the physical, psychosocial, and emotional development of children. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation enrollment in the Nursing Program. Successful completion of or concurrent enrollment in NURSE 177, 178, and 179.

NURSE 177–Pediatric Clinical
Cr: 3 Wkly hrs: 6 hours Lab
Provides students with opportunities to apply theoretical concepts learned in NURSE 176, in a variety of clinical settings. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation enrollment in the Nursing Program. Successful completion or concurrent enrollment in NURSE 176, 178, and 179.

NURSE 178–Maternal-Newborn Nursing
Cr: 3 Wkly hrs: 3 hours Lecture
Introduction of the professional nurse's role during the perinatal period. Includes clients who are experiencing complications and women's health issues. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation enrollment in the Nursing Program. Concurrent enrollment in or successful completion of NURSE 176, 177, and 179.

NURSE 179–Maternal-Newborn Clinical
Cr: 3 Wkly hrs: 6 hours Lab
Application of theoretical content to care of perinatal and gynecology clients. Utilization of nursing process and critical thinking in the clinical setting. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation enrollment in the Nursing Program. Successful completion of or concurrent enrollment in NURSE 176, 177, and 178.

NURSE 180–Medical Surgical Nursing I
Cr: 4 Wkly hrs: 4 hours Lecture
Prepares students to care for adult medical-surgical clients in acute and outpatient clinical settings. Builds on the foundation learned in NURSE 154 and NURSE 158. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation enrollment in the Nursing Program. Successful completion of or concurrent enrollment in NURSE 172, 174, 181, and 202.

NURSE 181–Medical Surgical Clinical
Cr: 3 Wkly hrs: 6 hours Lab
Provides students with opportunities to apply theoretical concepts learned in NURSE 180 and to utilize the nursing process primarily with adult clients in an acute care setting. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continuation enrollment in the Nursing Program. Successful completion of or concurrent enrollment in NURSE 172, 174, 180, and 202.
NURSE 182–Chronic Health Problems in Elderly
Cr: 1 Wkly hrs: 1 hours Lecture
Link pathophysiological changes related to diseases in the elderly and nursing care to facilitate positive adaptations in the client’s response. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continued enrollment in Nursing Program. Successful completion of or concurrent enrollment in NURSE 112, 116, 118, 142, 158 and 160.

NURSE 200–Professional Role Development III
Cr: 1 Wkly hrs: 1 hours Lecture
Examines concepts of leadership and management utilized by the RN in providing care to a group of clients and in the role of team leader. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continued enrollment in the Nursing Program. Successful completion of or concurrent enrollment in or successful completion of NURSE 204, 208, and 210.

NURSE 202–Clinical Applications Lab III
Cr: 1 Wkly hrs: 2 hours Lab
The course prepares students to perform certain nursing care procedures and to manage clients with various types of therapies involving equipment. A nursing process framework is utilized. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continued enrollment in the Nursing Program. Successful completion of or concurrent enrollment in NURSE 172, 174, 180, and 181.

NURSE 204–Nursing Ethics II
Cr: 1 Wkly hrs: 1 hours Lecture
The student will apply ethical theory, concepts, and decision-making processes to client case studies. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continued enrollment in the Nursing Program. Successful completion of or concurrent enrollment in NURSE 200, 208 and 210.

NURSE 206–Nursing Practice Application
Cr: 1 Wkly hrs: 2 hours Lab
Facilitate students practicing simulation and nursing skills on a drop in basis and in a self-directed manner throughout fifth quarter for a minimum of 20 hours.
Prerequisite: Continued enrollment in the Nursing Program. Successful completion of or concurrent enrollment in NURSE 200, 204, 208 and 210.

NURSE 208–Medical Surgical Nursing II
Cr: 4 Wkly hrs: 4 hours Lecture
Links pathophysiological changes related to particular disease entities and the client care needed to facilitate positive adaptation in the client’s response. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continued enrollment in the Nursing Program. Successful completion of or concurrent enrollment in NURSE 200, 204, and 210.

NURSE 210–Clinical Nursing Practice III
Cr: 5 Wkly hrs: 10 hours Lab
Integration of previous learning and application of theoretical concepts to clinical practice with emphasis on critical thinking and the nursing process. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Continued enrollment in the Nursing Program. Successful completion or concurrent enrollment in NURSE 200, 204, and 208.

NURSE 211–Professional Role Development Seminar
Cr: 2 Wkly hrs: 2 hours Lecture
Seminar will focus on group collaboration and topics to aid in transition from student to RN role. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Successful completion of NURSE 200, 204, 208 and 210. Continued enrollment in the Nursing Program. Must be taken concurrently with NURSE 212.

NURSE 212–Professional Role Development/Mentor
Cr: 8 Wkly hrs: 16 hours Lab
Prepares students to manage care for clients in a long term care facility and to gain additional experience in direct patient care utilizing a mentorship program. A grade of 2.2 (80%) or higher is required for completion of the Nursing Program.
Prerequisite: Continued enrollment in the Nursing Program. Must be taken concurrently with NURSE 211.

NURSE 252–Pharmacology Review
Cr: 2 Wkly hrs: 2 hours Lecture
A review to enhance the student’s clinical nursing practice application of pharmacology.
Prerequisite: NURSE 152 or permission of the instructor. Continued enrollment in the Nursing Program.

NURSE 214–Clinical Nutrition
Cr: 4 Wkly hrs: 4 hours Lecture
Prerequisite: NURSE 212 or concurrent enrollment in NURSE 200, 204, and 210.

NURSE 215–Nutrition and Diet Therapy
Cr: 5 Wkly hrs: 10 hours Lab
Basic nutrition assistant skills content as required by state and federal law. Laboratory includes extensive hands on practice with emphasis on critical thinking and the nursing process. A grade of 2.2 (80%) or higher is required for continuation in the Nursing Program.
Prerequisite: Successful completion of NURSE 200, 204, 208 and 210. Continued enrollment in the Nursing Program. Must be taken concurrently with NURSE 215.

NURS 318–Nursing Research
Cr: 3 Wkly hrs: 3 hours Lecture
Prerequisite: NURSE 212 or concurrent enrollment in NURSE 200, 204, 210.

NA 100–Introduction to Nursing Assistant
Cr: 2 Wkly hrs: 2 hours Lecture
Role of the nursing assistant, HIV/AIDS/Bloodborne Pathogens Training

NA 102–Introduction to Nursing Assistant Lab
Cr: 0.5 Wkly hrs: 1 hours Lab
Basic nursing assistant skills content as required by state and federal law; CPR and AED use.
Co-requisite: NA 100

NA 110–Fundamentals of Nursing Assisting
Cr: 4 Wkly hrs: 4 hours Lecture
Basic nursing assistant classroom content as required by state and federal law.
Prerequisite: 2.3 or better grade in NA 100 & NA 102.

NA 112–Fundamentals of Nursing Assisting Lab
Cr: 2.5 Wkly hrs: 5 hours Lab
Basic nursing assistant skills content as required by state and federal law.
Prerequisite: 2.3 or better grade in NA 100 & NA 102.

NA 120–Nursing Assistant Practicum
Cr: 4 Wkly hrs: 8 hours Lab
Students will demonstrate knowledge, understanding, and application of theory and skills learned in NA 100, 102, 110 and 112 in the clinical setting.
Prerequisite: 2.3 or above grade in NA 110 & NA 112. Pass a DSHS criminal background check (RCW 43.43.830-845) and complete all required documentation by the due date.

NURS 181–Nursing Assistant
Cr: 3 Wkly hrs: 6 hours Lab
Prerequisite: NURS 180 or concurrent enrollment in NURS 180.

Course Descriptions

Nutrition

NUTR101–Human Nutrition
Cr: 5 Wkly hrs: 5 hours Lecture
NS - Basic principles of nutrition emphasizing the physiological requirements for proteins, lipids, carbohydrates, vitamins, and minerals; their sources; their relationship to metabolism, nutritional status, and common health problems. A brief introduction to naturopathic medicine is included. (Formerly BIOL 200)
Prerequisite: ENGL 099, MATH 099A all with a grade of 2.0 or better OR equivalent assessment (Accuplacer) test scores in these areas. Recommended: BIOL& 160, BIOL& 175, CHEM& 121.

Oceanography

OCEA101–Intro to Oceanography
Cr: 5 Wkly hrs: 3 hours Lecture, 4 hours Lab
NS - Quantitative and descriptive study of the oceans and their physics, chemistry, geology, and biology. Laboratory includes extensive field work. (Formerly BIO 205)

Organizational Leadership/ Resource Management

OLRM 150–Improving Human Effectiveness
Cr: 2 Wkly hrs: 2 hours Lecture
Organizational performers are clear on their strengths and how they can be used in personal/professional settings. Explores how strengths can create a fulfilling career and life. (Pass/No Credit)

OLRM 180–Leading with Emotional Intelligence
Cr: 2 Wkly hrs: 3 hours Lecture
This course explores the relationship between leadership and emotional intelligence with a focus on learning and applying EQ skills to improve overall leadership practice.

OLRM 201–Intro to Organizational Leadership
Cr: 5 Wkly hrs: 5 hours Lecture
Introduction to leadership within organizations, history of leadership studies, leadership theories, case studies, vision, understanding relationships of leadership, motivation, and power.

OLRM 202–Introduction to Organizational Ethics
Cr: 5 Wkly hrs: 5 hours Lecture
Introduction to organizational ethics, understanding the correlation between leadership/management practice and the reflectiveness of moral philosophy, applying ethical decision making model to ethical dilemmas.

OLRM 205–Working in a Diverse and Inclusive Workforce
Cr: 3 Wkly hrs: 3 hours Lecture
Managing a Diverse and Inclusive Workforce with a Global Perspective. This course will focus on innovative practices that can make the workplace and world a more inclusive environment.

*See course description for prerequisite.
OLRM 210–Introduction to Servant Leadership
Cr: 5 Wkly hrs: 5 hours Lecture
Introduction to Servant Leadership philosophy. Survey historical and contemporary figures in the development of servant-leadership. Explore individual and organizational models of servant-leadership. Identify core principles and key practices to assess development and function of servant-leaders and servant-led organizations.

OLRM 220–Human Relations in the Workplace
Cr: 3 Wkly hrs: 3 hours Lecture
The study of interactions between people at the workplace. Focus on developing skills to work effectively as a team member and part of an organization.

OLRM 225–Human Relations in Organizations
Cr: 5 Wkly hrs: 5 hours Lecture
The study of interactions between people in organizational settings. The course focuses on developing skills to communicate effectively with other people as an individual, group, and a team member including verbal, non-verbal language, and listening skills.

OLRM 231–Intro to Non-Profit Organizations
Cr: 3 Wkly hrs: 3 hours Lecture
The concepts and structures of the non-profit organization including vision, mission, organizational structure, and societal significance.

OLRM 233–Funding/Grant Writing for Non-Profits
Cr: 3 Wkly hrs: 3 hours Lecture
The strategies and processes for supporting non-profit funding/development including writing basic Grant proposals and applications.

OLRM 250–Organizational Communication
Cr: 5 Wkly hrs: 5 hours Lecture
Presents concepts of organizational communication based on a competency-based approach incorporating personal knowledge, interpersonal sensitivity, communications skills, and ethical values.

OLRM 260–Conflict Resolution
Cr: 5 Wkly hrs: 5 hours Lecture
Provides the knowledge and practice to master the skills necessary to manage conflict, encourage cooperation, and create workable solutions.

OLRM 299–Capstone Leadership Project
Cr: 1-5 Wkly hrs: 10 hours Lab
A practical application in the working world of the basic theories studied in the above program or discipline. (Pass/No Credit)
Prerequisite: Successful completion of OLRM 201, OLRM 202, OLRM 205, OLRM 210, OLRM 250, and OLRM 260

OLRM 310–Workplace & Environmental Safety
Cr: 5 Wkly hrs: 5 hours Lecture
Fundamentals of workplace/environmental safety management. Course is designed to increase appreciation for workplace safety, expand knowledge of potential hazards, and identify the necessary steps to conduct an environmental audit. Elements of safety management, OSHA standards, program design & execution, increasing leadership/organizational participation, stakeholder involvement, and performance assessment for continuous improvement.
Prerequisite: Acceptance into the OLMT BAS program or Instructor permission.

OLRM 320–Business/Leadership–Digital Economy
Cr: 5 Wkly hrs: 5 hours Lecture
Students explore the impact of digital technologies on business processes to understand their leadership role in various organizations and professional-technical fields. Topics will focus on how leadership skills and practices support the implementation of new digital technologies in various business contexts, and how leadership, digital technologies and innovation intersect in the evolving business environment. Students will research and analyze how emerging technologies, including mobile devices, cloud services, social media, search engine optimization and the emerging Internet of things, shape business functions such as customer and vendor relationships, marketing, process monitoring and optimization, and virtual collaboration.
Prerequisite: Acceptance into the BAS program.

OLTM 330–Business Ethics and Policy
Cr: 5 Wkly hrs: 5 hours Lecture
Examines contemporary ethics and policy issues in business, with an emphasis on their application in the technical professions. Review of ethical theory and moral reasoning and its influence on decision-making models. Focus is on how leadership, digital technologies and innovation intersect in the evolving business environment. Students will research and analyze how emerging technologies, including mobile devices, cloud services, social media, search engine optimization and the emerging Internet of things, shape business functions such as customer and vendor relationships, marketing, process monitoring and optimization, and virtual collaboration.
Prerequisite: Acceptance into the BAS program.

OLTM 340–Negotiation, Mediation, Conflict Res.
Cr: 5 Wkly hrs: 5 hours Lecture
Explores negotiation and mediation, conflict management techniques, combating contractual issues, and other conflict scenarios.
Prerequisite: Acceptance into the BAS program or Instructor permission.

OLTM 400–Leading/Facilitating High Perf. Teams
Cr: 5 Wkly hrs: 5 hours Lecture
Fundamental concepts, theories, and techniques for guiding work teams to achieve organizational outcomes and maximize human potential. Focus on current challenges and issues confronting leaders/managers in technical organizations and identifying positive team management strategies to build and sustain high performance teams.
Prerequisite: Acceptance into the OLMT BAS program or Instructor Permission.

Cr: 5 Wkly hrs: 5 hours Lecture
Quality management and process improvement methods within a technical environment. Through case studies and class discussion, examine strengths and challenges of process improvement including LEAN, Six Sigma and Just In Time systems. A special focus on safety practices when developing and implementing process improvement, organizational systems and infrastructure, process improvement plans, customer focus, continuous improvement, and team involvement.
Prerequisite: Acceptance into the OLMT BAS program or Instructor Permission.

OLTM 420–Plan, Lead & Execute Strategic Change
Cr: 5 Wkly hrs: 5 hours Lecture
Focus on change management within a technical environment. Key leadership challenges, skills, and competencies from effectively planning, leading, executing, and sustaining change in a complex environment. Students will work collaboratively through a change management project, engage in research, and examine the importance of assessing an organization's capacity for change. An emphasis on effective decision-making practices and change models.
Prerequisite: Acceptance into the OLMT BAS program or Instructor Permission.

OLTM 490–Senior Capstone Ldr. & Technical Mgmt
Cr: 5 Wkly hrs: 5 hours Lecture
Designed to integrate and apply program/professional competencies. Choose one or a combination of the following: Workplace leadership project synthesizing knowledge, skills, and experiences in area of technical expertise. Service/community-based project College-to-career transition experience (e.g., internship/practicum) Achievement of recognized external industry/professional standards or certifications. Submit concept paper one quarter prior to registering for this course; full-time OLMT faculty approval required.
Prerequisite: This course should be completed during the last 12 credits of the program prior to graduation. The capstone experience project requires instructor permission to enroll.

Organizational Leadership/ Tech Management

OLTM 301–Leading/Managing Tech Prof. and Org.
Cr: 5 Wkly hrs: 5 hours Lecture
Focus on leadership and management within a technical environment. Covers critical leadership issues, developing a leadership orientation, planning, structuring, organizing functions of management; the organization as a “system”; building and sustaining motivation, communication across organizational structures, frameworks for assessing organizational culture, supervisory methods, managerial decision-making, and individual, interpersonal, and group effectiveness in view of leading and managing the total enterprise.
Prerequisite: Acceptance into the OLMT BAS program or instructor permission.

OLTM 310–Workplace & Environmental Safety
Cr: 5 Wkly hrs: 5 hours Lecture
Fundamentals of workplace/environmental safety management. Course is designed to increase appreciation for workplace safety, expand knowledge of potential hazards, and identify the necessary steps to conduct an environmental audit. Elements of safety management, OSHA standards, program design & execution, increasing leadership/organizational participation, stakeholder involvement, and performance assessment for continuous improvement.
Prerequisite: Acceptance into the OLMT BAS program or Instructor permission.

OLTM 320–Business/Leadership–Digital Economy
Cr: 5 Wkly hrs: 5 hours Lecture
Students explore the impact of digital technologies on business processes to understand their leadership role in various organizations and professional-technical fields. Topics will focus on how leadership skills and practices support the implementation of new digital technologies in various business contexts, and how leadership, digital technologies and innovation intersect in the evolving business environment. Students will research and analyze how emerging technologies, including mobile devices, cloud services, social media, search engine optimization and the emerging Internet of things, shape business functions such as customer and vendor relationships, marketing, process monitoring and optimization, and virtual collaboration.
Prerequisite: Acceptance into the BAS program.

OLTM 330–Business Ethics and Policy
Cr: 5 Wkly hrs: 5 hours Lecture
Examines contemporary ethics and policy issues in business, with an emphasis on their application in the technical professions. Review of ethical theory and moral reasoning and its influence on decision-making models. Focus is on how leadership, digital technologies and innovation intersect in the evolving business environment. Students will research and analyze how emerging technologies, including mobile devices, cloud services, social media, search engine optimization and the emerging Internet of things, shape business functions such as customer and vendor relationships, marketing, process monitoring and optimization, and virtual collaboration.
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Cr: 5 Wkly hrs: 5 hours Lecture
Fundamental concepts, theories, and techniques for guiding work teams to achieve organizational outcomes and maximize human potential. Focus on current challenges and issues confronting leaders/managers in technical organizations and identifying positive team management strategies to build and sustain high performance teams.
Prerequisite: Acceptance into the OLMT BAS program or Instructor Permission.

Cr: 5 Wkly hrs: 5 hours Lecture
Quality management and process improvement methods within a technical environment. Through case studies and class discussion, examine strengths and challenges of process improvement including LEAN, Six Sigma and Just In Time systems. A special focus on safety practices when developing and implementing process improvement, organizational systems and infrastructure, process improvement plans, customer focus, continuous improvement, and team involvement.
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Prerequisite: Acceptance into the OLMT BAS program or Instructor Permission.

OLTM 490–Senior Capstone Ldr. & Technical Mgmt
Cr: 5 Wkly hrs: 5 hours Lecture
Designed to integrate and apply program/professional competencies. Choose one or a combination of the following: Workplace leadership project synthesizing knowledge, skills, and experiences in area of technical expertise. Service/community-based project College-to-career transition experience (e.g., internship/practicum) Achievement of recognized external industry/professional standards or certifications Submit concept paper one quarter prior to registering for this course; full-time OLMT faculty approval required.
Prerequisite: This course should be completed during the last 12 credits of the program prior to graduation. The capstone experience project requires instructor permission to enroll.

Organizational Leadership/ Tech Management

OLTM 301–Leading/Managing Tech Prof. and Org.
Cr: 5 Wkly hrs: 5 hours Lecture
Focus on leadership and management within a technical environment. Covers critical leadership issues, developing a leadership orientation, planning, structuring, organizing functions of management; the organization as a “system”; building and sustaining motivation, communication across organizational
H/SS - Course will examine the development of human behavior from a psychological perspective. Emphasis on analyzing, evaluating, and understanding the complexities of human behavior in various contexts.

PHIL 240 – Intro to Ethics
Cr: 5 Wkly hrs: 5 hours Lecture
Focus on sentence logic with proofs and approach to logic and critical thinking. Constructing thought in a clear logical fashion that deals with rational inquiry in the various areas of philosophical study: metaphysics, epistemology, ethics, religion, and other areas.

PHIL 115 – Parent Education Cooperatives
Cr: 1-2 Wkly hrs: 1 hours Lecture, 2 hours Lab
Parents learn about child development and positive guidance from instructor, class discussions, or other activities. Topics selected based on individual needs/ages of children. (Pass/No Credit)
Prerequisite: Child enrolled in OC Parent Child Co-Op Preschool or OC Child Care or permission of instructor.

PARED 130 – Becoming a Love and Logic Parent
Cr: 2 Wkly hrs: 2 hours Lecture
Practical strategies for reducing behavior problems, increasing motivation, and building assets that contribute to lifelong responsibility and resiliency.

PHIL&101 – Intro to Philosophy
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - Introduction to philosophical questions that deal with rational inquiry in the various areas of philosophical study: metaphysics, epistemology, ethics, religion, and other areas.

PHIL&115 – Critical Thinking
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - Emphasis on analyzing, evaluating, and constructing thought in a clear logical fashion with application to other fields. A non-symbolic approach to logic and critical thinking. (Formerly PHIL 115)

PHIL&120 – Symbolic Logic
Cr: 5 Wkly hrs: 5 hours Lecture
NS/SS - Introduction to symbolic logic with focus on sentence logic with proofs and predicate logic with quantifiers and proofs. (Formerly PHIL& 106)
Prerequisite: Intermediate algebra course work (high school or college) with a grade of 2.0 or higher.

PHIL 240 – Intro to Ethics
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - Course will examine the development of moral philosophy, representing a broad range of some of the key ideas and thinkers as they have come to influence moral and ethical choices.

Physical Education – Education
PE-ED 104 – Health Science
Cr: 2 Wkly hrs: 2 hours Lecture
Survey course of health issues: emotional and physical health topics, drug abuse, lifestyle diseases, sexuality issues, consumerism, environmental/occupational health, and death and dying.

PE-ED 105 – College First Aid and Community CPR
Cr: 3 Wkly hrs: 3 hours Lecture
Course of study leading to certification in First Aid/CPR/AED. Students learn and practice skills so they are prepared to respond to emergencies involving infants, children, and adults.

PE-ED 106 – Infant-Child CPR/First Aid
Cr: 2 Wkly hrs: 2 hours Lecture
Expanded course in Infant/Child CPR and First Aid, using American Red Cross (ARC) standards. Successful completion of ARC written and skill tests can lead to Red Cross certification.

PE-ED 107 – Personal Wellness
Cr: 3 Wkly hrs: 3 hours Lecture
Focus on major wellness factors (stress management, tobacco use, nutrition, and fitness) as they impact individuals. Students engage in internet/library research, writing and presentation projects.

PE-ED 109 – Basic CPR
Cr: 1 Wkly hrs: 1 hours Lecture
Course is Basic Adult CPR using American Red Cross (ARC) Standards.

PE-ED 110 – Basic First Aid
Cr: 1 Wkly hrs: 1 hours Lecture
Course in Basic First Aid using American Red Cross (ARC) Standards.

PE-ED 112 – BLS for Healthcare Providers
Cr: 2 Wkly hrs: 2 hours Lecture
Course in CPR for Basic Life Support for Healthcare Providers. Course follows American Red Cross (ARC) Standards. (Pass/No Credit)

PE-ED 125 – Sport Psychology
Cr: 3 Wkly hrs: 3 hours Lecture
Introduction to applied strategies of sport and exercise psychology. Techniques such as goal setting, imagery, and self talk will be discussed as a means to increase performance.

PE-ED 126 – Introduction to Coaching
Cr: 3 Wkly hrs: 3 hours Lecture
Provide students with the knowledge of the critical components involved in the profession of coaching.

PE-ED 199 – Practicum
Cr: 1-5 Wkly hrs: 10 hours Lab
A practical application in the working world of the basic theories studied in the above program or discipline.
Prerequisite: Permission of instructor.

Physical Education – Fitness and Sports
PEFSP 106 – Golf
Cr: 1 Wkly hrs: 2 hours Lab
Course can be offered as: PEFSP 106/206. Course emphasizes the fundamental skills of golf, proper equipment usage, etiquette, and rules necessary to play golf as a recreational sport.

PEFSP 109 – Self Defense
Cr: 1 Wkly hrs: 2 hours Lab
Course can be offered as: PEFSP 109/209. Course emphasizes the fundamental skills necessary to defend yourself and/or others in the event you are confronted by an attacker/assailant.

PEFSP 110 – Karate
Cr: 1 Wkly hrs: 2 hours Lab
Course can be offered as: PEFSP 110/210. Emphasizes the fundamental skills of karate and develops an understanding of karate as an art form.

PEFSP 111 – Tai Chi
Cr: 1 Wkly hrs: 2 hours Lab
Course can be offered as: PEFSP 111/211. This course will be an introduction to the study of Tai Chi focusing on the philosophy and postures of this martial art.

PEFSP 112 – Brazilian jiu jitsu
Cr: 1 Wkly hrs: 2 hours Lab
Course can be offered as: PEFSP 112/228. Covers basic knowledge and skills needed (such as movements, positions, and concepts) in a progressive skill building approach. Emphasizes proper technique, mobility, pressure, and leverage awareness. Intended for those interested in establishing a foundational knowledge of BJJ.

PEFSP 128 – Basketball
Cr: 2 Wkly hrs: 4 hours Lab
Course can be offered as: PEFSP 128/228. Emphasizes the fundamental skills of basketball, team strategies of offense and defense and rules necessary to play basketball as a recreational sport.

PEFSP 132 – Volleyball
Cr: 2 Wkly hrs: 4 hours Lab
Course can be offered as: PEFSP 132/232. Course emphasizes the fundamental skills of volleyball, offenses, defenses, and rules necessary to play volleyball as a recreational sport.

PEFSP 140 – Yoga I
Cr: 2 Wkly hrs: 4 hours Lab
Introduction to the theory and practice of yoga as a form of exercise, relaxation and improved posture. This course will help provide a foundation for sound physical and emotional health.

PEFSP 142 – Yoga II
Cr: 2 Wkly hrs: 4 hours Lab
Provides further exploration into the practice of yoga. Additional postures and exercises designed to achieve strength, flexibility, and proper body alignment will be presented.

PEFSP 148 – Zumba Fitness
Cr: 1 Wkly hrs: 2 hours Lab
Course can be offered as: PEFSP 148/248. Zumba Fitness is a combination of Latin music and dance patterns which create a dynamic and effective fitness program. Routines include interval training of fast and slow rhythms.
Course Descriptions

**PEFSP 149–MixedxFit**
Cr: 1  Wkly hrs: 2 hours Lab
Course can be offered as: PEFSP 149/249.
MixedxFit is a people-inspired dance fitness program that is a mix of explosive dancing and bootcamp toning.

**PEFSP 150–Total Body Blast**
Cr: 2  Wkly hrs: 4 hours Lab
Course can be offered as: PEFSP 150/250.
High-intensity interval training utilizing the Tabata protocol of intense exercise followed by short rest. Effective speed, agility and flexibility drills to improve your fitness.

**PEFSP 153–Fast Fitness**
Cr: 2  Wkly hrs: 4 hours Lab
Course can be offered as: PEFSP 153/253.
Self-paced fitness class incorporating both resistance training and cardiovascular exercise.

**PEFSP 175–Jogging**
Cr: 2  Wkly hrs: 4 hours Lab
Course can be offered as: PEFSP 175/275.
Exploration of concepts of improving lifetime aerobic fitness. Students will jog a variety of distances and courses with sufficient stimulus to produce aerobic fitness.

**PEFSP 177–Ice Skating I**
Cr: 1  Wkly hrs: 2 hours Lab
Course for beginner-advanced ice skaters. Instructional emphasis will be placed on building a fundamental understanding of ice skating skills and their application as a lifelong sport. Students will be introduced to basic use and care of equipment and safety implications.

**PEFSP 178–Aerobic Walking**
Cr: 2  Wkly hrs: 4 hours Lab
Course can be offered as: PEFSP 178/278.
Exploration of concepts for improving lifetime aerobic fitness. Students will walk a variety of distances and courses with sufficient stimulus to produce aerobic fitness.

**PEFSP 181–Weight Management and Exercising**
Cr: 3  Wkly hrs: 2 hours Lecture, 2 hours Lab
Course can be offered as: PEFSP 181/281.
Learn about the principles of successful weight management including healthy eating behaviors, dietary guidelines, and appropriate exercise choices and technique

**PEFSP 183–TRX Suspension Training**
Cr: 1  Wkly hrs: 2 hours Lab
Explores the concepts of improving strength, flexibility, balance and mobility utilizing the body’s own weight.

**PEFSP 184–Introduction to Kettlebells**
Cr: 1  Wkly hrs: 2 hours Lab
Course emphasizes safe and effective use of kettlebells. Students will be introduced to exercises including the swing, goblet squat and get-up.

**PEFSP 187–Weight Training I**
Cr: 2  Wkly hrs: 4 hours Lab
Introduction to the basic principles of weight training. Students will learn how to use free weights safely and effectively, as well as learn how to incorporate them into a comprehensive workout program.

**PEFSP 188–Weight Training II**
Cr: 2  Wkly hrs: 4 hours Lab
Course can be offered as: PEFSP 188/288.
Course incorporates principles of both strength and conditioning. Students engage in musculoskeletal and cardiorespiratory activities with the goal of improving overall fitness

**PEFSP 190–Athletic Conditioning I**
Cr: 2  Wkly hrs: 4 hours Lab
Course can be offered as: PEFSP 190/290.
Prepares pre-season student athletes competing in intercollegiate sports at Olympic College through cardiovascular and flexibility training.

**PEFSP 191–Athletic Conditioning II**
Cr: 2  Wkly hrs: 4 hours Lab
Course can be offered as: PEFSP 191/291.
Prepares student athletes competing in intercollegiate sports at Olympic College through general and sport specific strength development.

**PEFSP 192–Athletic Conditioning III**
Cr: 2  Wkly hrs: 4 hours Lab
Course can be offered as: PEFSP 192/292.
Prepares student athletes competing in intercollegiate sports at Olympic College through sport specific movement and speed development.

**PEFSP 199–Practicum**
Cr: 1-5  Wkly hrs: 10 hours Lab
Course can be offered as: PEFSP 199/299.
A practical application in the working world of the basic theories studied in the above program or discipline.
Prerequisite: Permission of instructor.

**PEFSP 249–MixedxFit**
Cr: 1  Wkly hrs: 2 hours Lab
Course can be offered as: PEFSP 149/249.
MixedxFit is a people-inspired dance fitness program that is a mix of explosive dancing and bootcamp toning.

**PEFSP 250–Total Body Blast**
Cr: 2  Wkly hrs: 4 hours Lab
Course can be offered as: PEFSP 150/250.
High-intensity interval training utilizing the Tabata protocol of intense exercise followed by short rest. Effective speed, agility and flexibility drills to improve your fitness.

**PEFSP 259–Intro to Backpacking**
Cr: 2  Wkly hrs: 4 hours Lab
Course can be offered as: PEFSP 259/299.
Learn necessary skills and techniques for safe and fun backcountry travel. Explore proper use of clothing & outdoor gear, along with minimum impact camping techniques.

**PEFSP 267–Intermediate Rock Climbing**
Cr: 2  Wkly hrs: 4 hours Lab
Skill development leading to indoor and outdoor lead climbing. Includes 40 hours of activity in both indoor and outdoor sessions.

**PEFSP 270–Backpacking and Survival**
Cr: 2  Wkly hrs: 4 hours Lab
Participate in activities related to camping, travel and survival techniques in the outdoors. Includes a minimum of 6 hiking/backpacking field trips.
Prerequisite: Successful completion of PE-RD 170 with a grade of 2.0 or better within the past 5 years.

**PEFSP 272–Intermediate Mountaineering**
Cr: 2  Wkly hrs: 4 hours Lab
Advanced techniques related to rock, ice, and snow climbing/travel, and alpine living skills.
Prerequisite: Completion of PE-RD 172 with a grade of 2.0 or better in the past 5 years.

**PEFSP 275–Basic Rock Climbing**
Cr: 2  Wkly hrs: 4 hours Lab
Topics related to technical (5th class) rock-climbing. Includes 40 hours of activity in a structured rock-climbing environment.

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**Physical Education–Recreation and Dance**

**PE-RD 147–Ballroom/Swing Dance**
Cr: 1  Wkly hrs: 2 hours Lab
Course can be offered as: PE-RD 147/247.
The history and cultural background in the Fox trot, Waltz, Swing, Rumba, Cha-Cha, Samba, and Tango dances. Includes technique, choreography, postural development/body placement, and terminology.

**PE-RD 170–Intro to Backpacking**
Cr: 3  Wkly hrs: 1 hours Lecture, 4 hours Lab
Learn necessary skills and techniques for safe and fun backcountry travel. Explore proper use of clothing & outdoor gear, along with minimum impact camping techniques.

**PE-RD 172–Basic Mountaineering**
Cr: 5  Wkly hrs: 2 hours Lecture, 6 hours Lab
Techniques in snow and rock climbing; field trips including exercises to develop proficiency in individual and team skills. Highest emphasis is placed on safety, confidence and responsibility in difficult terrain.

**PE-RD 175–Basic Rock Climbing**
Cr: 2  Wkly hrs: 4 hours Lab
Skill development leading to indoor and outdoor lead climbing. Includes 40 hours of activity in both indoor and outdoor sessions.

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**Course Notes:**

- *See course description for prerequisite.*
Course Descriptions

**Physical Therapist Assistant**

PTA 101—Introduction to Physical Therapy  
*Cr: 2  Wkly hrs: 2 hours Lecture*  
An introduction to the profession of physical therapy. Content includes: history of physical therapy, professional conduct, role of the PTA, communication skills and psycho-social aspects of practice.  
**Prerequisite:** Admission into the Physical Therapist Assistant program.

PTA 102—Medical Terminology for PTA  
*Cr: 2  Wkly hrs: 2 hours Lecture*  
An in-depth introduction to medical terminology. Each body system will be examined individually.  
**Prerequisite:** Admission into the PTA program.

PTA 103—Documentation for the PTA  
*Cr: 2  Wkly hrs: 2 hours Lecture*  
Presents issues relating to documentation in physical therapy.  
**Prerequisite:** Admission into the PTA program.

PTA 105—Current PT Trends & Issues  
*Cr: 2  Wkly hrs: 2 hours Lecture*  
The course will discuss current issues relevant to physical therapy that may be controversial or that may have recently been introduced to the profession.  
**Prerequisite:** Passing grade in all previous Physical Therapist Assistant courses.

PTA 106—Kinesiology and Functional Anatomy  
*Cr: 6  Wkly hrs: 5 hours Lecture, 2 hours Lab*  
A study of movement emphasizing functional components of the musculoskeletal and neuromuscular systems with a two hour palpation lab.  
**Prerequisite:** Passing grade in all previous Physical Therapist Assistant courses.

PTA 107—Pathology  
*Cr: 5  Wkly hrs: 5 hours Lecture*  
A basis for the understanding of etiology and progression of disease processes. Basic concepts of inflammation followed by a systems-based approach to the body systems.  
**Prerequisite:** 2.0 or better in all previous Physical Therapist Assistant courses.

PTA 108—Human Growth and Development  
*Cr: 2  Wkly hrs: 2 hours Lecture*  
Examination of normative development across the lifespan from infancy through the aging adult, including the impact of disease/disability on the normative development and function.  
**Prerequisite:** Passing grade in all previous Physical Therapist Assistant courses.

PTA 110—Orthopedic Conditions  
*Cr: 2  Wkly hrs: 2 hours Lecture*  
An in-depth view of musculoskeletal and orthopedic conditions encountered in physical therapy. Sections on each joint or region and common orthopedic surgical procedures and associated rehabilitation are described.  
**Prerequisite:** Passing grade in all previous Physical Therapist Assistant courses.

PTA 111—Neuroscience for the PTA  
*Cr: 2  Wkly hrs: 2 hours Lecture*  
The course presents an in-depth view of neurological and neuromuscular conditions encountered in physical therapy. Review and development of functional neuroanatomy and pathology for each condition.  
**Prerequisite:** Passing grade in all prior Physical Therapist Assistant courses.

PTA 120—PTA Procedures I—Basic Skills  
*Cr: 6  Wkly hrs: 4 hours Lecture, 4 hours Lab*  
The course provides an introduction to basic skills used in physical therapy.  
**Prerequisite:** Admission into the Physical Therapist Assistant Program.

PTA 121—PTA Procedures II—Gait Assessment  
*Cr: 4  Wkly hrs: 2 hours Lecture, 4 hours Lab*  
Provides the student with skills for identifying normal and abnormal posture, balance and gait associated with a variety of patient diagnoses.  
**Prerequisite:** Passing grade in all prior Physical Therapist Assistant courses.

PTA 122—PTA Procedures III—Orthopedics  
*Cr: 6  Wkly hrs: 4 hours Lecture, 4 hours Lab*  
Students will learn to perform assessment and intervention techniques regarding orthopedic and musculoskeletal conditions. Extensive instruction with lab practice regarding therapeutic exercise in orthopedics.  
**Prerequisite:** Passing grade in all prior Physical Therapist Assistant courses.

PTA 123—PTA Procedures IV—Physical Agents  
*Cr: 4  Wkly hrs: 2 hours Lecture, 4 hours Lab*  
Concepts of physical agents used in physical therapy including thermal agents, hydrotherapy, traction, compression, ultrasound and electrical currents, including lab.  
**Prerequisite:** Passing grade in all prior Physical Therapist Assistant courses.

PTA 125—PTA Procedures VI—Tests and Measures  
*Cr: 4  Wkly hrs: 2 hours Lecture, 4 hours Lab*  
Students will learn to perform data collection and assessment techniques relating to common practice of orthopedic, neurololgic and cardiopulmonary physical therapy.  
**Prerequisite:** Passing grade in all prior PTA courses.

PTA 126—PTA Procéd VII—Therapeutic Exercise  
*Cr: 2  Wkly hrs: 1 hours Lecture, 2 hours Lab*  
Students learn fundamentals of exercise technique and exercises relating to strength, range of motion, and neuromuscular systems with a two hour clinical lab.  
**Prerequisite:** Passing grade in all prior PTA courses.

PTA 127—PTA Procedures VIII—Functional Rehab  
*Cr: 4  Wkly hrs: 3 hours Lecture, 2 hours Lab*  
Provides the student with skills related to the patient's functional mobility within a variety of settings and involves prosthetic and orthotic intervention techniques as well as cardiopulmonary functional rehabilitation.  
**Prerequisite:** Passing grade in all prior Physical Therapist Assistant courses.

PTA 251—Clinical Experience I  
*Cr: 4  Wkly hrs: 12 hours Clinic*  
Terminal clinical education experience will be fulfilled under direct supervision of a physical therapist/PTA.  
**Prerequisite:** All prior Physical Therapist Assistant courses with a passing grade and successful passing of lab practical exit exam.

PTA 260—Professional Integration Seminar  
*Cr: 3  Wkly hrs: 3 hours Lecture*  
Provides a basis for developing clinical problem solving and critical thinking skills while concurrently enrolled in the final clinical education course. Students will develop skills necessary for licensure application and examination, including taking practice licensure examination, and resume writing/job application skills.  
**Prerequisite:** Enrollment in PTA program and successful completion of all previous course work.

**Physics**

PHYS 110—Introduction to Physics  
*Cr: 6  Wkly hrs: 5 hours Lecture, 2 hours Lab*  
**Prerequisite:** MATH 099 with a grade of 2.0 or above

PHYS 114—General Physics  
*Cr: 6  Wkly hrs: 5 hours Lecture, 2 hours Lab*  
NS - Mechanics: Fundamental quantities, vectors, one and two dimensional motion, statics, Newton’s Laws, gravitation, work and energy, impulse and momentum, and rotational motion.  
**Prerequisite:** PHYS 124 or 121/PHYS 121 (131)  
**Prerequisite:** MATH 141 with a grade of 2.0 or above.
Course Descriptions

PHY 115–General Physics
Cr: 6 Wkly hrs: 5 hours Lecture, 2 hours Lab
NS - Electric fields, forces and potential, direct current and resistance, capacitance and dielectrics, magnetism, induction, electromagnetic waves, reflection, refraction, polarization, and interference phenomena. (Offered Winter Quarter only.) (Formerly PHYS& 122/PHYS& 132)
Prerequisite: PHYS 114 with a grade of 2.0 or above.

PHY 116–General Physics
Cr: 6 Wkly hrs: 5 hours Lecture, 2 hours Lab
NS - Simple harmonic motion, fluids, sound waves, heat, thermal equilibrium, Ideal Gas Law and laws of thermodynamics, lenses and optical instruments. Quantum, atomic and nuclear physics as time allows. (Offered Spring Quarter only.) (Formerly PHYS& 123/PHYS& 133)
Prerequisite: PHYS 114 with a grade of 2.0 or above.

PHY 254–Engineering Physics
Cr: 6 Wkly hrs: 5 hours Lecture, 2 hours Lab
NS - Electricity and Magnetism: Coulomb's Law, Gauss's Law, electric and magnetic fields, capacitors and resistors in circuits, electrical instruments, and Kirchoff's rules. (Formerly PHYS& 222/PHYS& 232)
Prerequisite: PHYS 254 with a grade of 2.0 or above.

PHY 255–Engineering Physics
Cr: 6 Wkly hrs: 5 hours Lecture, 2 hours Lab
NS - Fluids, Oscillations and Waves; Temperature Scales, Heat Measurements, Thermal Properties of Matter, First and Second Law of Thermodynamics; Light, Reflection, Refraction, Lenses, Mirrors, Image Formation, Interference, Diffraction and Polarization. (Formerly PHYS& 223/PHYS& 233)
Prerequisite: PHYS 254 with a grade of 2.0 or above.

Political Science

POL 175–Politics and Literature
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - An examination of the central issues and concepts of politics through the perspective provided by great literature. Included will be the questions of authority, responsibility, freedom, and power. (Same as HUMAN 175)

POL 199–Practicum
Cr: 1-5 Wkly hrs: 10 hours Lab
Course can be offered as: POL 199/299. A practical application in the working world of the basic theories studied in the above program or discipline.

POL 201–Intro Political Theory
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - An introduction to the major thinkers and philosophies that have shaped the Western political tradition. (Formerly POLS 185)

POL 202–American Government
Cr: 5 Wkly hrs: 5 hours Lecture
SS - Development, structure, and role of U.S. Government, with attention to democratic traditions. Constitutionalism, federalism, civil liberties, political parties, and propaganda. (Formerly POLS 210)

POL 203–International Relations
Cr: 5 Wkly hrs: 5 hours Lecture
SS - Rise of state and modern state system with emphasis on nationalism, sovereignty, national power, imperialism, economic and military rivalry, and the quest for security and peace and problems of developing nations. (Formerly POLS 240)

POL 235–Labor and Film
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - Using a combination of labor films and labor history, this course examines the role of unions in the United States and their trajectory of struggle for workers' rights and welfare. (Same as HUMAN 235)

POL 255–Political Communication
Cr: 5 Wkly hrs: 5 hours Lecture
H/SS - Exploration of political communication in historical and contemporary settings. Investigating political cultures as constructed through public rhetorics, traditional media, and digital communication practices. This course looks at the history and impact of political communication in local and global contexts (same as CMST 255).

English 101

POL 323–U.S. Health Care Crisis
Cr: 5 Wkly hrs: 5 hours Lecture
SS - Controversies and challenges of U.S. health care including accessibility and costs. (Formerly POLS 300) (Same as BNUMR 323).

Practical Nursing

PNUR 102–Physical Assessment Lecture
Cr: 2 Wkly hrs: 2 hours Lecture
Foundational principles of physical assessment, including structures and functions of body systems. The emphasis is on normal physical assessment findings.
Prerequisite: Admission into the Practical Nursing Program and concurrent enrollment in, or completion of, PNURS 103, 104, 105, 110, 112, 114 and 122 with a grade point of 2.0 (75%) or higher. Completion of PNURS 108 with a grade point of 2.0 (75%) and PNURS 126 with a grade point of 3.7 (94%) or higher.

PNUR 103–Physical Assessment Application Lab
Cr: 1 Wkly hrs: 2 hours Lab
The course provides foundational principles of physical assessment. The basis of nursing decisions and actions for the practical nurse.
Prerequisite: Admission into the Practical Nursing Program and concurrent enrollment in, or completion of, PNURS 102, 104, 105, 110, 112, 114 and 122 with a grade point of 2.0 (75%) or higher. Completion of PNURS 108 with a grade point of 2.0 (75%) and PNURS 126 with a grade point of 3.7 (94%) or higher.

PNUR 104–Lab I, Lecture
Cr: 1 Wkly hrs: 1 hours Lecture
Introductory lecture course for organization, implementation and oversight of care for the client needing basic nursing skills, standard precautions, postmortem care and medication administration.
Prerequisite: Admission to the Practical Nursing Program and concurrent enrollment in, or completion of, PNURS 102, 104, 110, 112, 114 and 122 with a grade point of 2.0 (75%) or higher and successful completion of PNURS 108 with a grade point of 2.0 (75%) or higher and PNURS 126 with a grade point of 3.7 (94%) or higher.

PNUR 105–Lab I, Application
Cr: 1 Wkly hrs: 2 hours Lab
Lab class for organization, implementation and oversight of care for the client needing basic nursing skills, standard precautions, postmortem care and medication administration by a variety of routes including oral, injection and inhalation.
Prerequisite: Admission to the Practical Nursing Program and concurrent enrollment in, or completion of, PNURS 102, 104, 110, 112, 114 and 122 with a grade point of 2.0 (75%) or higher and successful completion of PNURS 108 with a grade point of 2.0 (75%) or higher and PNURS 126 with a grade point of 3.7 (94%) or higher.

PNUR 106–Lab II
Cr: 2 Wkly hrs: 4 hours Lab
Lab class emphasizing psychomotor skill development for the care of the med-surg client (IV therapy, oxygen, med. admin., suctioning, wound care and catheterization).
Prerequisite: Admission to the Practical Nursing Program. Completion of PNURS 102, 104, 105, 108, 110, 112, 114 & 122 with a minimum grade of 2.0 in all courses; completion of PNURS 126 with a minimum grade of 3.7 (94%) concurrent enrollment or completion: PNURS 116, 118, and 124.

PNUR 108–Clinical Pharmacology
Cr: 1 Wkly hrs: 1 hours Lecture
An introduction to current practices in drug therapy and the pharmacokinetics that influence drug actions.
Prerequisite: BIOL& 175 or BIOL& 241 & 242.

*COURSES NOTES: H=Humanities, H/SP=Humanities/Skills Performance, NS=Natural Science, SS=Social Science
PNURS 110—Medical Terminology
Cr: 2 Wkly hrs: 2 hours Lecture
An introduction to word roots, combining forms, suffixes, prefixes, spelling and pronunciation guidelines using a body systems approach.

PNURS 112—Personal and Professional Roles
Cr: 2 Wkly hrs: 2 hours Lecture
Introduction to the vocational roles of the practical nursing student regarding laws and ethics, history, self-assessment, communication, nursing process, and planning care, within the scope of practice of the licensed practical nurse in Washington state. Strategies for personal success in the Practical Nursing Program are discussed.
Prerequisite: Admission into the Practical Nursing Program and concurrent enrollment in, or completion of, PNURS 102, 103, 104, 105, 110, 112 and 122 with a grade point of 2.0 (75%) or higher. Completion of PNURS 108 with a grade point of 2.0 (75%) and PNURS 126 with a grade point of 3.7 (94%) or higher.

PNURS 114—Fundamentals I
Cr: 5 Wkly hrs: 5 hours Lecture
Introduction to nursing concepts: microbiology, HIV, geriatric care, growth/development across the lifespan, wellness/illness continuum, and primary, secondary, and tertiary levels of prevention interventions.
Prerequisite: Admission into the Practical Nursing Program and concurrent enrollment in, or completion of, PNURS 102, 103, 104, 105, 110, 112, and 122 with a grade point of 2.0 (75%) or higher. Completion of PNURS 108 with a grade point of 2.0 (75%) and PNURS 126 with a grade point of 3.7 (94%) or higher.

PNURS 116—Fundamentals II
Cr: 5 Wkly hrs: 5 hours Lecture
Introduction to medical-surgical nursing, with emphasis applying the nursing process.
Prerequisite: Admission to Practical Nursing Program. Completion of PNURS 102, 103, 104, 105, 108, 110, 112, and 114 with a grade point of 2.0 (75%) or higher. Completion of PNURS 108 with a grade point of 2.0 (75%) and PNURS 126 with a grade point of 3.7 (94%) or above. Concurrent enrollment in or completion of PNURS 106, 118, and 124.

PNURS 118—Nutrition
Cr: 3 Wkly hrs: 3 hours Lecture
The practical nurse’s role in nutrition education, emphasizing nutrients and special dietary needs related to the different medical-surgical conditions throughout the lifespan.

PNURS 122—Long Term Care Clinical
Cr: 3 Wkly hrs: 6 hours Lab
Direct care experience using practice/application of critical thinking, nursing process, care planning, physical assessment, communication, activities of daily living, and safety with long-term care residents, within the scope of practice of the licensed practical nurse in the state of Washington.
Prerequisite: Admission to Practical Nursing Program and concurrent enrollment in, or completion of PNURS 102, 103, 104, 105, 110, 112, and 114 with a 2.0 (75%) GPA or higher. Completion of PNURS 108 with a grade point of 2.0 (75%) or higher and PNURS 126 with a grade point of 3.7 (94%) or higher.

PNURS 124—Medical-Surgical Clinical
Cr: 5 Wkly hrs: 10 hours Lab
Direct care experience of the hospitalized medical-surgical patient, emphasizing clinical reasoning and judgment, using the Nursing Process, application of client care concepts and skills.
Prerequisite: Admission to Practical Nursing Program. Completion of PNURS 102, 103, 104, 105, 108, 110, 112, 114, 122 with a grade point of 2.0 (75%) or above, and PNURS126 with a grade of 3.7 (94%) or above. Concurrent enrollment in or completion of PNURS 106, 116, and 118.

PNURS 126—Dosage Calculations
Cr: 1 Wkly hrs: 1 hour Lecture
Introduction to the dosage calculations used in medication administration in the clinical setting.
Prerequisite: MATH 099.

PNURS 127—Dosage Calculation Applications
Cr: 1 Wkly hrs: 1 hour Lecture
The course will provide opportunities to apply theory relating to dosage calculations via work problems, doctors’ orders, IV rates, IV & IM dosages and oral routes.
Prerequisite: MATH 099 or higher. Concurrent enrollment in, or completion of PNURS 126 or NURSE 151.

PNURS 200—Practical Nursing Pharmacology Review
Cr: 1 Wkly hrs: 1 hour Lecture
A review to enhance the student’s clinical nursing practical application of pharmacology.
Prerequisite: PNURS 108. Continued enrollment in the Practical Nursing Program.

PNURS 202—Client Care Management
Cr: 2 Wkly hrs: 2 hours Lecture
Discuss the Practical Nurse’s role in management and supervision, team building, client advocacy, trends in healthcare, resume writing and preparation to enter the work force.
Prerequisite: Admission to Practical Nursing Program; successful completion of PNURS 102, 103, 104, 105, 106, 108, 110, 112, 114, 116, 122, 124, 203, 204, 205, 208, 209 with a grade of 2.0 (75%) or higher, and a 3.7 (94%) or higher in PNURS 126; concurrent enrollment in or completion of PNURS 206 and 210.

PNURS 203—Fundamentals III-Mental Health
Cr: 1 Wkly hrs: 1 hour Lecture
Introduction to common mental health conditions using the nursing process.
Prerequisite: Admission to Practical Nursing Program; successful completion of PNURS 102, 103, 104, 105, 106, 108, 110, 112, 114, 116, 122, and 124 with a minimum grade of 2.0 (75%) completion of PNURS 126 with a minimum grade of 3.7 (94%). Concurrent enrollment in or successful completion of PNURS 204, 205, 208 and 209.

PNURS 204—Fundamentals III Pediatrics
Cr: 2 Wkly hrs: 2 hours Lecture
Introduction to pediatrics using a nursing process framework. Includes critical thinking, stress/adaptation and ethical concepts.
Prerequisite: Admission to Practical Nursing Program and successful completion of PNURS 102, 103, 104, 105, 106, 108, 110, 112, 114, 116, 118, 122 and 124 with a minimum grade of 2.0 (75%) in each course (75%); completion of PNURS 126 with a minimum grade of 3.7 (94%) or above; concurrent enrollment or successful completion of PNURS 203, 205, 208 and 209.

PNURS 205—Fundamentals III Obstetrics
Cr: 2 Wkly hrs: 2 hours Lecture
Introduction to childbirth using a nursing process framework. Includes critical thinking, stress/adaptation and ethical concepts.
Prerequisite: Admission to Practical Nursing Program; successful completion of PNURS 102, 103, 104, 105, 106, 108, 110, 112, 114, 116, 118, 122 and 124 with a minimum grade of 2.0 (75%) completion of PNURS 126 with a minimum grade of 3.7 (94%). Concurrent enrollment in or successful completion of PNURS 203, 204, 208 and 209.

PNURS 206—Fundamentals IV
Cr: 4 Wkly hrs: 4 hours Lecture
Introduction to complex medical-surgical disorders with emphasis applying the nursing process.
Prerequisite: Admission to Practical Nursing Program; successful completion of PNURS 102, 103, 104, 105, 106, 108, 110, 112, 114, 116, 122, 124, 203, 204, 205, 208, 209, with a grade of 2.0 (75%) or above, and PNURS 126 with a grade of 3.7 (94%) or above. Concurrent enrollment in or completion of PNURS 202 and 210.

PNURS 208—Pediatric/Obstetric Clinical
Cr: 4 Wkly hrs: 8 hours Lab
Direct patient care experience emphasizing clinical reasoning/ judgment and use of the Nursing Process in practice and application of theory/skills related to clients in Pediatric and Obstetric settings.
Prerequisite: Admission to Practical Nursing Program; successful completion of PNURS 102, 103, 104, 105, 106, 108, 110, 112, 114, 116, 122, 124 with a minimum grade of 2.0 (75%) completion of PNURS 126 with a minimum grade of 3.7 (94%). Concurrent enrollment in or successful completion of PNURS 203, 204, 205, and 209.

PNURS 209—Mental Health Clinical Experience
Cr: 1 Wkly hrs: 2 hours Lab
This clinical experience prepares students to care for clients with mental health alterations in a structured, inpatient mental health setting.
Prerequisite: Admission to Practical Nursing Program; successful completion of PNURS 102, 103, 104, 105, 106, 108, 110, 112, 114, 116, 122, and 124 with a minimum grade of 2.0 (75%) completion of PNURS 126 with a minimum grade of 3.7 (94%). Concurrent enrollment in or successful completion of PNURS 204, 205, 208, and 209.

PNURS 210—Clinical Mentorship
Cr: 8 Wkly hrs: 16 hours Lab
Students will provide direct patient care, prioritizing care for groups, and care management. The course provides experiences working on an acute care med/surg floor and a mentoring experience in long term care. The course prepares students to demonstrate nursing professional roles on a med/surg floor and a mentorship experience.
Prerequisite: Admission to Practical Nursing Program; successful completion of PNURS 102, 103, 104, 105, 106, 108, 110, 112, 114, 116, 118, 122, 124, 203, 204, 205, 208 and 209 with a 2.0 (75%) or higher, and a 3.7 (94%) or higher in PNURS 126; concurrent enrollment in or completion of PNURS 202 and 206.
Course Descriptions

Psychology

PSYC 100—General Psychology
Cr: 5  Wkly hrs: 5 hours Lecture
SS - Survey of basic topics in psychology including methods, biological basis of behavior, sensation, perceptions, learning, memory, motivation, emotion, and clinical psychology. (Formerly PSYCH 101)

PSYC 102—Psychology of Adjustment
Cr: 5  Wkly hrs: 5 hours Lecture
SS - Systematic presentation of scientific psychological principles and procedures for the resolution of human problems and relationships.

PSYC 199—Practicum
Cr: 1-5  Wkly hrs: 10 hours Lab
Course can be offered as: PSYC 199/299. A practical application in the working world of the basic theories studied in the above program or discipline.

PSYC 200—Lifespan Psychology
Cr: 5  Wkly hrs: 5 hours Lecture
SS - Introduces the development of different stages in physical, cognitive, personality, and socio-emotional changes over the life span. (Formerly PSYCH 224)

PSYC 220—Abnormal Psychology
Cr: 5  Wkly hrs: 5 hours Lecture
SS - A survey of psychopathology, specifically a study of abnormal human behavior, its description and explanation from several theoretical perspectives and an overview of therapies to modify abnormal behavior. (Formerly PSYCH 240)

PSYC 240—Biological Psychology
Cr: 5  Wkly hrs: 5 hours Lecture
SS - A survey of the biological determinants of behavior with emphasis on current research findings and ethical issues. (Formerly PSYCH 220)
Prerequisite: PSYC& 100.

PSYC 260—Introduction to Clinical Psych
Cr: 5  Wkly hrs: 5 hours Lecture
SS - An introduction to professional issues in clinical and counseling psychology and major therapeutic techniques used in the professions.
Prerequisite: Either PSYC& 100 or SOC& 101 or instructor's approval.

PSYC 300—Industrial/Organizational Psychology
Cr: 5  Wkly hrs: 4 hours Lecture, 2 hours Lab
SS - Industrial and Organizational Psychology studies the psychology of people in organizations and the workplace. The focus is on applying the principles derived from the study of human behavior and applying this knowledge to the solution of problems at work. Areas of focus will include: Job/task analysis, recruitment, selection, performance management, talent development, teamwork/group dynamics, organization design, change management, and culture development.
Prerequisite: Acceptance into BAS program or permission of instructor

Science

SCI 100—Introduction to Science
Cr: 5  Wkly hrs: 5 hours Lecture
NS - Overview of sciences taught at Olympic College. Scientific methodology through inquiry, observation, experiment, and communication of science concepts in chemistry, biology, physics, and others. No prior science background required.
Prerequisite: MATH 094 and ENGL 099 or equivalent placement scores.

Sociology

SOC& 101—Intro to Sociology
Cr: 5  Wkly hrs: 5 hours Lecture
SS - Introduces the subject matter, theories and methods of sociology. Focuses on the interaction between the individual and the social milieu.
Prerequisite: Accuplacer placement in ENGL&101 strongly recommended.

SOC 115—Crime and Society
Cr: 5  Wkly hrs: 5 hours Lecture
SS - This introductory course provides students with a foundational understanding of the American criminal justice system. Students will learn about the empirical reality of crime as well as the primary actors, institutions and processes involved in the criminal justice system. Crime and reactions to crime will be examined as part of the social and institutional life in contemporary American society.
Prerequisite: Recommendation: ENGL&101 with Grade of 2.4 or better

SOC 125—Sociology of Aging
Cr: 5  Wkly hrs: 5 hours Lecture
SS - An introductory course on aging focusing particularly on the social and emotional dimensions of the aging process.
Prerequisite: Accuplacer placement in ENGL&101 strongly recommended.

SOC 135—The Family
Cr: 5  Wkly hrs: 5 hours Lecture
SS - This course examines structural and personal change factors in families in Western and non-Western countries.
Prerequisite: Accuplacer placement in ENGL&101 strongly recommended.

SOC 190—U.S. Race & Ethnicity
Cr: 5  Wkly hrs: 5 hours Lecture
SS - An examination of America’s diverse ethnic and cultural traditions, with an emphasis on global and comparative perspectives.
Prerequisite: Accuplacer placement in ENGL&101 strongly recommended.

SOC 199—Practicum
Cr: 1-5  Wkly hrs: 10 hours Lab
A practical application in the working world of the basic theories studied in the above program or discipline.

SOC& 201—Social Problems
Cr: 5  Wkly hrs: 5 hours Lecture
SS - Students are asked to consider the value of studying social problems from a sociological perspective. (Formerly SOCIO 102)
Prerequisite: Accuplacer placement in ENGL&101 strongly recommended.

Spanish

SPAN& 121—Spanish I
Cr: 5  Wkly hrs: 5 hours Lecture
H - Develops the student’s skills in reading, writing, speaking and listening comprehension. Introduces the student to elementary grammatical structures and vocabulary. Explores the geography and cultures of Spanish speaking countries (Formerly FLSPN 101).

SPAN& 122—Spanish II
Cr: 5  Wkly hrs: 5 hours Lecture
H - Develops the student’s skills in reading, writing, speaking and listening comprehension. Expands the students’ knowledge acquisition of grammatical structures and vocabulary. Explores geographical and cultural aspects of Spanish speaking countries. (Formerly FLSPN 102)
Prerequisite: SPAN& 121 or equivalent.

Notes:

COURSE NOTES: H=Humanities, S/SP=Humanities/Skills Performance, NS=Natural Science, SS=Social Science

*See course description for prerequisite.

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SPAN&123–Spanish III
Cr: 5 Wkly hrs: 5 hours Lecture
- Develops the student’s skills in reading, writing, speaking and listening comprehension. Expands the students’ knowledge acquisition of grammatical structures and vocabulary. Explores geographical and cultural aspects of Spanish speaking countries.
(Formerly FLSPN 103)
Prerequisite: SPAN& 122 or equivalent.
SPAN&221–Spanish IV
Cr: 5 Wkly hrs: 5 hours Lecture
- H: Principles of Spanish syntax, lexicon, and grammar. Explores the history, geography, and culture of Spanish speaking countries.
(Formerly FLSPN 201)
Prerequisite: SPAN& 123 or permission of instructor.

Technical Design
TEC-D 107—Technical Drawing
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
A beginning drawing course teaching both introductory hand drawing and computer drawing skills. Concepts taught include: care and use of instruments, linetypes, sketching, numbering of planes, lettering and linework, orthographic projection, primary and secondary auxiliary projections, introduction to descriptive geometry, isometric drawing and isometric sections, orthographic sections, and an introduction to the theory of dimensioning.
Prerequisite: Students must have appropriate manual drafting tools and access to an Olympic College computer using AutoCAD software.

TEC-D 109—Descriptive Geometry
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
Introduction to principles of descriptive geometry used to solve 3 dimensional problems graphically via successive auxiliary projections. Study of space relationships for points, lines and planes that precede design. Also an introduction to development of surfaces and intersections.
Prerequisite: TEC-D 200 with a grade of 2.0 or above or permission of instructor. All students must have access to computer lab.

TEC-D 112—Blueprint Reading
Cr: 4 Wkly hrs: 4 hours Lecture
This is an introductory course in blueprint reading and standard component and performance specifications as used in, industrial drawings for manufacturing and precision machining.

TEC-D 116—Computational Techniques/Technicians
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
Perform algebraic, geometric, and other complex interactive and repetitive calculations using hand calculators and spreadsheet calculation aids.

TEC-D 121—Plane Surveying
Cr: 4 Wkly hrs: 1 hours Lecture, 6 hours Lab
Introduction to plane surveying. Use of instruments, computations, error corrections, and mapping. Emphasis on public land surveys, physical measurements, and related problems.
Prerequisite: TEC-D 107, TEC-D 116 or permission of instructor.

TEC-D 122—Introduction to Legal Descriptions
Cr: 2 Wkly hrs: 1 hours Lecture, 2 hours Lab
This course introduces the student to the Public Land Survey System (PLSS). It defines how parcels of property are described and helps the student to understand these descriptions.

TEC-D 123—Introduction to Construction Staking
Cr: 2 Wkly hrs: 1 hours Lecture, 2 hours Lab
This course introduces the student to the process of construction staking as it applies to Civil Design projects.

TEC-D 127—Residential Architectural Drawing
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
Basic drawing equipment and techniques and their application to the production of single story house building plans, elevations, and sections suitable for residential construction. A pencil drawing course.
Prerequisite: TEC-D 107 or permission of instructor.

TEC-D 128—Adv Residential Architectural Drawing
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
Expands Residential Architectural Drawing 127. Students will use AutoCAD to create a complete Sheet Set of a two story residential building.
Prerequisite: TEC-D 127 or permission of instructor.

TEC-D 130—Construction Materials and Methods
Cr: 3 Wkly hrs: 3 hours Lecture
Familiarization with the applications of materials commonly used in construction and processes in manufacture.

TEC-D 145—Applied Problem Solving
Cr: 5 Wkly hrs: 5 hours Lecture
Uses math concepts and models in a lecture/discovery format to enhance problem-solving skills required in the workplace. (Same as WELD 145)
Prerequisite: MATH 0908 with a grade of 2.0 or above or satisfactory placement test score.

TEC-D 150—Introduction to GIS
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
An overview of GIS and its applications, plus hands-on projects forming data relationships displayed in map or graphical formats.

TEC-D 151—Intermediate GIS with ArcView
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
Intermediate GIS with ArcView expands upon introductory GIS topics and provides a working knowledge of various project applications.
Prerequisite: TEC-D 150.

TEC-D 175—Introduction to Solid Edge
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
Solid Edge is a parametric 3D modeler for machine parts, assemblies, and consumer products; building 3D solids from constrained 2D sketches.

TEC-D 180—Introduction to Catia
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
An introduction to Catia, a 3D modeling CAD/CAM software developed for the aerospace, automotive, and marine industries. It is applicable to any industry that uses free form compound curves in product design and manufacturing.
Prerequisite: TEC-D 107 required; TEC-D 200 encouraged.

TEC-D 200—Computer-Aided Design I
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
Introduction to Computer-Aided Drafting using AutoDesk ACAD software to create, edit, and plot engineering drawings.
Prerequisite: TEC-D 107 with a grade of 2.0 or above or permission of instructor.

TEC-D 205—Engineering Tech Project Planning
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
An introduction to the concepts used in planning engineering projects. This is a practical, hands-on conceptual approach to Engineering Project Planning. Microsoft Project Software may be used as a vehicle to outline this planning. This is intended for those seeking to be engineering technicians to enhance their ability to communicate with engineers. This course is not to teach software, but rather, to teach the engineering approach to building bridges, etc. as opposed to planning models used in business.

TEC-D 211—Geometric Dimensioning & Tolerancing
Cr: 4 Wkly hrs: 4 hours Lecture
The application of Geometric Dimensioning & Tolerancing techniques as per national and international standards (e.g. ANSI Y14.5 M/ISO/TC10/SC5).
Prerequisite: TEC-D 107 or permission of instructor.

TEC-D 217—Computer-Aided Design II
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
Advanced AutoCAD emphasizing manipulation and display of 2D drawings. Includes many of the new features introduced in recent software releases.
Prerequisite: TEC-D 200 or experienced user or permission of instructor.

TEC-D 221—2D Production Drawing
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
An intensive course using AutoCAD to create and/or modify large 2D production drawings, details, sub-assemblies and assembly drawings.
Prerequisite: TEC-D 200 or permission of instructor.

TEC-D 222—AutoCAD 3D
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
Students learn commands needed to produce, edit and render 3D computer drawings using AutoCAD 3D.
Prerequisite: TEC-D 200 or permission of instructor.

TEC-D 231—Introduction to Civil Drafting
Cr: 4 Wkly hrs: 3 hours Lecture, 2 hours Lab
An introductory course to provide a general knowledge of the fundamental principles and concepts used to prepare civil engineering drawings.
Prerequisite: TEC-D 200, TEC-D 217 or permission of instructor.

TEC-D 242—Intermediate AutoDesk REVIT
Cr: 4 Wkly hrs: 2 hours Lecture, 4 hours Lab
Intermediate Building Information Management (BIM) software using AutoDesk Revit allows students to explore BIM concepts and create 3D architectural parametric modeling projects. Residential aspects will be stressed.
Prerequisite: TEC-D 127, or permission of instructor.

TEC-D 270—3D Analyst
Cr: 2 Wkly hrs: 1 hours Lecture, 2 hours Lab
This course is designed for those who want to apply three-dimensional visualization and analysis techniques to their spatial data. (Pass/No Credit)
Prerequisite: TEC-D 150.
Course Descriptions

TEC-D 271–Geodatabases for GIS
Cr: 2  Wkly hrs: 1 hours Lecture, 2 hours Lab
This course is designed for experienced ArcGIS users who need an introduction to creating, editing, and managing data stored in a personal geodatabase. (Pass/No Credit)
Prerequisite: TEC-D 150.

TEC-D 272–Geoprocessing with GIS
Cr: 2  Wkly hrs: 1 hours Lecture, 2 hours Lab
This course is designed for experienced ArcGIS users who want to use geoprocessing tools and models in their GIS projects. (Pass/No Credit)
Prerequisite: TEC-D 150.

TEC-D 273–Map Projections in GIS
Cr: 2  Wkly hrs: 1 hours Lecture, 2 hours Lab
This course is designed for students and GIS professionals who want to understand the properties of different map projections and coordinate systems. (Pass/No Credit)
Prerequisite: TEC-D 150.

TEC-D 274–Natural Resource GIS
Cr: 2  Wkly hrs: 1 hours Lecture, 2 hours Lab
This course teaches methods for acquiring, evaluating, creating, manipulating, and integrating data in preparation for analysis and map creation. It addresses problems commonly encountered by those in the natural resource and conservation fields. (Pass/No Credit)
Prerequisite: TEC-D 150.

TEC-D 275–Spatial Analyst
Cr: 2  Wkly hrs: 1 hours Lecture, 2 hours Lab
This course is designed for experienced ArcGIS users who want to work with rasters to identify spatial relationships, develop suitability models, or calculate the cost of travel over a surface. (Pass/No Credit)
Prerequisite: TEC-D 150.

TEC-D 280–AutoCAD Update
Cr: 1  Wkly hrs: 1 hours Lecture
Emphasis is on new and enhanced features in the most current version of AutoCAD. This is NOT a multiple level update class. (Pass/No Credit)
Prerequisite: Experienced AutoCAD user and currently using recent AutoCAD software recommended.

TEC-D 290–Capstone Project
Cr: 1-5  Wkly hrs: 2 hours Lecture, 6 hours Lab
Capstone course that allows students to integrate knowledge from previous classes and demonstrate this in a collaborative, team based, multi-discipline project, in which they design and document a product, and test that design through manufacturing when appropriate and a final project report. May be repeated for a maximum of 5 credits.
Prerequisite: Instructor permission.

Welding

WELD 100–Oxyacetylene Welding
Cr: 6  Wkly hrs: 2 hours Lecture, 8 hours Lab
Oxyacetylene welding and brazing in the flat, horizontal and vertical positions on mild steel plate; Oxy fuel cutting and plasma arc cutting processes.
Prerequisite: Completion of or concurrent enrollment in WELD 106 or by permission of instructor.

WELD 101–Arc Welding I
Cr: 6  Wkly hrs: 2 hours Lecture, 8 hours Lab
Shielded metal arc welding (SMAW) in the flat and horizontal positions on low carbon steel plate using E6010 and E7018 electrodes; Arc cutting with compressed air (C/A-C).
Prerequisite: Completion of or concurrent enrollment in WELD 106 or by permission of instructor.

WELD 102–Arc Welding II
Cr: 6  Wkly hrs: 2 hours Lecture, 8 hours Lab
Shielded metal arc welding (SMAW) making sound groove welds and fillet welds in all positions using E7018 electrodes on plain carbon steel.
Prerequisite: WELD 101 or permission of instructor.

WELD 103–Arc Welding III
Cr: 6  Wkly hrs: 2 hours Lecture, 8 hours Lab
Producing sound groove welds in the 2G and 3G positions on mild steel welded with the shielded metal arc welding (SMAW) process using E7018 electrode classification.
Prerequisite: WELD 102 and completion of WELD 106 or permission of instructor.

WELD 104–Gas Tungsten Arc Welding
Cr: 6  Wkly hrs: 2 hours Lecture, 8 hours Lab
Students develop skills required for Gas Tungsten Arc Welding (TIG) in the flat, horizontal and vertical positions on mild steel, stainless steel and aluminum plate.
Prerequisite: WELD 100 and 107 or concurrent enrollment in WELD 107 or permission of instructor.

WELD 105–Gas Metal Arc/Flux Cored Arc Welding
Cr: 6  Wkly hrs: 2 hours Lecture, 8 hours Lab
Students develop skills required for Gas Metal Arc (MIG) and flux cored arc welding in the flat, horizontal and vertical positions on mild steel and aluminum plate.
Prerequisite: WELD 107 or concurrent enrollment in WELD 107 or permission of instructor.

WELD 106–Welding Technical Orientation I
Cr: 5  Wkly hrs: 5 hours Lecture
Beginning welding theory with emphasis on safety, weld processes of oxyacetylene welding (OAW), oxyfuel cutting (OFC), shielded metal arc welding (SMAW), carbon arc cutting with compressed air (C-A-C), electrical fundamentals and blue print reading.

WELD 107–Welding Technical Orientation II
Cr: 5  Wkly hrs: 5 hours Lecture
Advanced welding, cutting, and manufacturing processes and American Welding Society symbol reading and interpretation.
Prerequisite: WELD 106 or permission of instructor.

WELD 108–Welding Metallurgy
Cr: 5  Wkly hrs: 5 hours Lecture
A study of the metallurgy of welding and joining both ferrous and nonferrous metals, primarily as used in building and repair.

WELD 111–Pipe Welding I
Cr: 6  Wkly hrs: 2 hours Lecture, 8 hours Lab
Producing sound open root groove welds in the 2G, 5G, and 6G positions on mild steel pipe welded with the shielded metal arc welding (SMAW) process using E6010 and E7018 electrode classification.
Prerequisite: A grade of 3.0 or higher in WELD 103 and WELD 106 or instructor approval.

WELD 112–Pipe Welding II
Cr: 6  Wkly hrs: 2 hours Lecture, 8 hours Lab
Producing sound open root groove welds in the 2G and 5G positions on mild steel pipe welded with the gas tungsten arc welding (GTAW) process using ER 70 S-2 filler metal and E7018 electrode classification.
Prerequisite: A grade of 3.0 or higher in WELD 103, 104, 107, and 111 or instructor approval.

WELD 125–Welding Refresher Laboratory
Cr: 2  Wkly hrs: 4 hours Lab
Skill development and certification refresher for the purpose of passing employment and/or certification examinations.
Prerequisite: Permission of instructor.

WELD 126–Welding Refresher Laboratory
Cr: 4  Wkly hrs: 8 hours Lab
Skill development and certification refresher for the purpose of passing employment and/or certification examinations.
Prerequisite: Permission of instructor.

WELD 145–Applied Problem Solving
Cr: 5  Wkly hrs: 5 hours Lecture
Uses math concepts and models in a lecture/discovery format to enhance problem-solving skills required in the workplace. (Same as TEC-D 145)
Prerequisite: MATH 690B with a grade of 2.0 or above or satisfactory placement test score.

WELD 190–Welding Special Projects
Cr: 3  Wkly hrs: 6 hours Lab
Course can be offered as: WELD 190/191/192. The fabrication and manufacture of welded projects selected by the student or assigned by the instructor. Includes designing, cost analysis, ordering materials, and fabrication of projects.
Prerequisite: Advanced standing with instructor permission.

Transition to Associate Degree Nursing

TADN 181–LPN to ADN Transition–Theory
Cr: 3  Wkly hrs: 3 hours Lecture
Provides licensed practical nurses a transition for entry into the TADN bridge program. A grade of 2.2 (80%) or higher is required for continuation in the TADN Program.
Prerequisite: Successful completion of an approved LPN program. Unencumbered Washington State LPN License. Completion of CHEM & 121, BIOL & 241, BIOL & 242, BIOL & 260, ENGL & 101, and PSYC & 100 or PSYC & 102 with a grade of 2.0 or above. Accuplacer reading score of 78 or above. Admission to the TADN program.

WELD 111–Pipe Welding I
Cr: 6  Wkly hrs: 2 hours Lecture, 8 hours Lab
Producing sound open root groove welds in the 2G, 5G, and 6G positions on mild steel pipe welded with the shielded metal arc welding (SMAW) process using E6010 and E7018 electrode classification.
Prerequisite: A grade of 3.0 or higher in WELD 103 and WELD 106 or instructor approval.

WELD 112–Pipe Welding II
Cr: 6  Wkly hrs: 2 hours Lecture, 8 hours Lab
Producing sound open root groove welds in the 2G and 5G positions on mild steel pipe welded with the gas tungsten arc welding (GTAW) process using ER 70 S-2 filler metal and E7018 electrode classification.
Prerequisite: A grade of 3.0 or higher in WELD 103, 104, 107, and 111 or instructor approval.

WELD 125–Welding Refresher Laboratory
Cr: 2  Wkly hrs: 4 hours Lab
Skill development and certification refresher for the purpose of passing employment and/or certification examinations.
Prerequisite: Permission of instructor.

WELD 126–Welding Refresher Laboratory
Cr: 4  Wkly hrs: 8 hours Lab
Skill development and certification refresher for the purpose of passing employment and/or certification examinations.
Prerequisite: Permission of instructor.

WELD 145–Applied Problem Solving
Cr: 5  Wkly hrs: 5 hours Lecture
Uses math concepts and models in a lecture/discovery format to enhance problem-solving skills required in the workplace. (Same as TEC-D 145)
Prerequisite: MATH 690B with a grade of 2.0 or above or satisfactory placement test score.

WELD 190–Welding Special Projects
Cr: 3  Wkly hrs: 6 hours Lab
Course can be offered as: WELD 190/191/192. The fabrication and manufacture of welded projects selected by the student or assigned by the instructor. Includes designing, cost analysis, ordering materials, and fabrication of projects.
Prerequisite: Advanced standing with instructor permission.

*See course description for prerequisite.