

Course Descriptions

Distribution List Symbols

Symbol	Definition
HUM	Course meets distribution credit in Humanities.
SOCS	Course meets distribution credit in Social Science.
NSCI	Course meets distribution credit in Natural Sciences.
NSL	Course meets distribution credits in Natural Sciences as a lab course.
PERF	*Course meets distribution credits as a performance based course.
PAC	Course meets distribution credits as physical education activity course.
REEL	Course meets distribution credits as a restricted elective.
DIV	Course meets diversity requirement.
&	Course is part of the Washington Community

Symbol	Definition
	Colleges' Common Course Numbering system.
F	Course usually offered Fall Quarter.
W	Course usually offered Winter Quarter.
Sp	Course usually offered Spring Quarter.
S	Course usually offered Summer Quarter.

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Accounting (ACCT)

ACCT& 201 Principles of Accounting I **5 credits | ELEC**

Quarter(s): F, W

Includes an introductory study of financial accounting and accounting theory. Includes an in-depth study of the accounting cycle for service organizations, provides an introduction to merchandising transactions, cash, marketable securities, receivables, and inventory.

Prerequisites: BUS 104, MATH 088 with a grade of C or higher or instructor permission. No previous accounting courses are required.

ACCT& 202 Principles of Accounting II

5 credits | ELEC

Quarter(s): W, Sp

Studies the components of a simple corporate balance sheet including application to transactions in areas such as current liabilities, long-term assets, bonds, and stocks. Also introduces the statement of cash flows and financial statement analysis. Financial accounting theory is discussed and applied throughout the course.

Prerequisite: ACCT& 201 (was ACCT 231) with a grade of C or better and BUS 104 with a grade of C or better or MATH& 125 or higher Co-requisite: MATH& 125 or higher

ACCT& 203 Principles of Accounting III

5 credits

Quarter(s): Sp

Emphasis on accounting information as a planning and analysis tool to support management decision-making. Topics include manufacturing costs, job order costing, budgeting, break-even and cost-volume-profit analysis, relevant costs, capital investment decisions, and performance measurement.

Prerequisites: ACCT& 201 (was ACCT 231) with a grade of C or better and basic spreadsheet skills.

ACCT 101 Introduction to Accounting Concepts

5 credits | REEL

Quarter(s): F, W, Sp

Provides students with an introduction to the field of accounting. Topics include the accounting cycle, accounting for and presentation of assets, liabilities, and owner's equity.

Prerequisite: BUS 100, MATH 079 or higher with a grade of C or better or instructor permission. Concurrent requirement: BUS 100 if not previously taken.

ACCT 135 Accounting for Non-Accountants

5 credits

Introduces the basic elements of financial and managerial accounting. Topics include an overview of the accounting cycle, financial statement preparation, elements of statement analysis, break-even analysis, CVP analysis, and an overview of budgeting. Prerequisites: Math 079 or higher with a grade of C or higher or instructor permission.

ACCT 150 Payroll Accounting and Business Tax Reporting

5 credits | REEL

Quarter(s): Sp

Gives students experience in payroll accounting and business tax reporting. Topics include payroll processing, payroll tax return preparation, and preparation of excise tax returns. Context: Course is designed as a stand-alone course. Not intended for transfer.

Prerequisite: BUS 104 or higher and ACCT 101 or instructor permission

ACCT 241 Intro to Quickbooks

5 credits | REEL

Quarter(s): F

Provides experience with a multi-function electronic accounting system. Covers entering business transactions in the general ledger and subsidiary accounts such as payroll, accounts receivable, accounts payable, inventory, and fixed assets. Presents common accounting problems associated with the electronic accounting process. This course can be used as a stand-alone course for experienced professionals.

Prerequisites: ACCT 101 or ACCT& 201 and CS 110 or CS 111, or instructor permission.

ACCT 244 Individual Income Taxation

5 credits | REEL

Quarter(s): F

Explores the fundamental concepts of federal income taxation as it relates to individuals with some attention to sole proprietorships. Topics include federal tax structure, income inclusions and exclusions, deductions, and credits. The course also includes practice in preparing individual returns and related schedules. Course is required for the Accounting Technician AAS degree. Prerequisite: MATH 078/079.

ACCT 275 Accounting Tech Capstone **5 credits | REEL**

Quarter(s): Sp

Prepares students for the workplace by providing a review and extension of skills acquired in previous courses. Topics include accounting cycle review, adjusting entries, problems in QuickBooks, payroll accounting, and internal control principles.

Prerequisites: A grade of C or better in ACCT 150, ACCT& 202, and ACCT 241 or instructor permission.

ACCT 288 Cooperative Work Experience

1-15 credits

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

ACCT 299 Independent Study

1-10 credits

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Allied Health (AH)

AH 114 Healthcare Communication Skills

2 credits | REEL

Quarter(s): W, Sp

Provides introductory content on the communication process in health care settings. Introduces principles of communication, therapeutic communication skills, barriers to effective communication, and principles of verbal and written reporting in health care. Explores communication with clients who have complex needs, conflict resolution, team work, health care informatics, and cultural competency in health care. Techniques for acquiring employment will be discussed, and internet websites will be evaluated for credibility.

Prerequisite: ENGL 099 with a grade of C or higher (or ENGL& 101 placement), or instructor permission.

AH 166 Mental Health First Aid for Adults

1 credit | REEL

Prepares participants to assist an individual who may be developing a mental health problem or experiencing a mental health crisis. Includes risk factors and warning signs of mental health problems. Provides information on depression, anxiety, trauma, psychosis, and addiction. Presents a 5-step action plan for assisting an individual with a mental health problem or crisis. Discusses identification and utilization of resources. Content is based on the National Council for Behavioral Mental Health First Aid USA training program. Upon successful completion of the course, certification in Mental Health First Aid is awarded.

Prerequisites: None

AH 167 Mental Health First Aid for Youth

1 credit | REEL

Prepares participants to assist an individual who may be developing a mental health problem or experiencing a mental health crisis. Includes risk factors and warning signs of mental health problems. Provides information on depression, anxiety, trauma, psychosis, and addiction. Presents a 5-step action plan for assisting an individual with a mental health problem or crisis. Discusses identification and utilization of resources. Content is based on the National Council for Behavioral Mental Health First Aid USA training program. Upon successful completion of the course, certification in Mental Health First Aid is awarded.
Prerequisites: None

AH 288 Cooperative Work Experience **1-5 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.
Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

AH 299 Independent Study **1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.
Prerequisites: By instructor permission only.

American Sign Language (ASL)

ASL& 121 American Sign Language I **5 credits | HUM**

Quarter(s): F

Introduces the basics of American Sign Language (ASL). Designed for students who have little or no previous knowledge of ASL. Readiness for learning will be approached via visual-gestural communication techniques, visual discrimination, and visual memory exercises. ASL questions, commands, and other simple sentence structures are introduced to develop rudimentary conversational skills in ASL. Information about the Deaf Community and Deaf Culture will be introduced.

Prerequisites: None

ASL& 122 American Sign Language II **5 credits | HUM**

Quarter(s): W

Continues development of American Sign Language (ASL) skills, with primary focus on refining the use of basic ASL sentence types. Pronominalization, classifiers, spatial referencing, pluralization, and temporal and distributional aspects are introduced. Students learn routine communicative functions of the language: asking, requesting, providing clarification, and giving and asking for directions. Information about the Deaf Community and Deaf Culture is included.

Prerequisites: ASL& 121 with a grade of C or better.

ASL& 123 American Sign Language III:DIV**5 credits | HUM, DIV****Quarter(s): Sp**

Builds on skills learned in American Sign Language (ASL) II, adding more complex ASL grammatical features and vocabulary, short stories, narratives, and dialogues. Includes description of general surroundings, appropriate sequencing, temporal aspects and conditionals. Information about the Deaf Community and Deaf Culture will be included.

Prerequisites: ASL& 122 with a grade of C or better.

ASL 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

ASL 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Anthropology (ANTH)

ANTH& 100 Survey of Anthropology: DIV**5 credits | DIV, SOCS****Quarter(s): F**

Provides a holistic and comparative study of human life through a survey of four subfields (archaeology, biological/physical anthropology, cultural anthropology, and linguistic anthropology). Acquaints students with the history, methods, and major concepts of the field and give an overview of the range of potential social problems that anthropologists are particularly well-positioned to help solve.

Prerequisites: None

ANTH& 204 Archaeology**5 credits | SOCS****Quarter(s): Sp**

Provides an introduction to the study of human prehistory as revealed by material remains. Explores the theories and techniques of archaeological investigation (e.g., survey, excavation, and artifact analysis). Examines the human past from the emergence of our species to the development of social complexity, including a survey of early civilizations from various regions around the world.

Prerequisites: None. Concurrent requirements: None

ANTH& 205 Biological Anthropology
5 credits | NSCI

Quarter(s): F, Sp

Examines the essential facts of human biological evolution by providing a thorough understanding of the concept of evolution and applying it to the particular details of the evolution of human populations and the fossil record. Attention will also be given to the methodology of contemporary research and its application to the study of primate and human evolution.

Prerequisite: None

ANTH& 206 Cultural Anthropology:
DIV

5 credits | DIV, SOCS

Quarter(s): W

Examines the impact that the concept of culture has upon the anthropological understanding of humanity. Attention will be given to a thorough understanding of the concept of culture as a source of human diversity and its relationship to historical, economic, political, social, linguistic and religious development.

Prerequisite: None

ANTH 288 Cooperative Work
Experience

1-17 credits

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

ANTH 299 Independent Study
1-10 credits

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Art (ART)

ART& 100 Art Appreciation: DIV
5 credits | DIV, HUM

Quarter(s): S, F, W, Sp

Introduces basic art vocabulary and concepts, and provides a basis for understanding and appreciating art from a variety of cultures and time periods through visual presentations, demonstrations, discussion, and field trips. ART& 100 (was Art 110) is a transferable course. It fulfills the requirements of the AA-DTA Humanities distribution list.

Prerequisite: none

ART 101 Beginning Drawing
3 credits | HUM, PERF

Quarter(s): S, F, W, Sp

Introduces basic drawing techniques with a variety of media. Hands-on experience in the effective use of line, shape, surface quality, perspective, and composition through observations of still life and the figure. Intended for the beginning student. Focuses on learning to draw what is actually seen, i.e. drawing from the 'right' brain. Classes may include a nude model. Lab hours are required for this course.

Prerequisite: None

ART 102 Intermediate Drawing**3 credits | HUM, PERF****Quarter(s): S, F, W, Sp**

Continues the skills and concepts from ART 101 and applies them to a broader range of media and subject matter. Part of the term is devoted to introductory figure drawing working from a model. Classes may include a nude model. Lab hours are required for this course. Prerequisite: ART 101 or instructor permission.

ART 103 Advanced Drawing**3 credits | HUM, PERF****Quarter(s): S, F, W, Sp**

Expands on experience gained in ART 101 and 102, and adds more in-depth understanding of the materials and concepts in visual communication. This is a project oriented class, and may include nude model. Lab hours are required for this course. Prerequisite: ART 102 or instructor permission.

ART 106 Two-Dimensional Design**5 credits | HUM****Quarter(s): F, W, Sp**

Covers basic principles of visual organization and design through the investigation of two-dimensional space using black and white media. Explores basic two-dimensional concepts, such as figure/ground, grouping principles, grid, symmetry, rhythm, and pattern. Introduces vocabulary for analyzing, organizing, and communicating two-dimensional visual principles. May include designing with computers. Lab hours are required for this course. Prerequisites: None

ART 107 Color Theory and Design**5 credits | HUM****Quarter(s): F, W, Sp**

Presents color theory and application of color in two-dimensional design. Emphasizes color mixing, color relationships and visual impact, as well as psychological and symbolic uses of color. Successful completion of ART 106 recommended. May include designing with computers. Lab hours are required for this course. Prerequisites: None

ART 108 Three-Dimensional Design**5 credits | HUM, PERF**

Presents basic concepts in three-dimensional design through a series of assignments dealing with volume, space and scale, using a variety of media and techniques. Investigates formal and functional issues while developing creative problem-solving in the context of three-dimensional design. Lab hours are required for this course. Prerequisites: None

ART 109 Art Gallery I**1 credit | ELEC, HUM****Quarter(s): Sp**

Introduces the process of handling, installing, and de-installing artworks for an art exhibition. Focuses on artwork handling, install, and de-install process will focus on safety practices and proper art handling methods. This is a co-curricular course with Art Club. Lab hours are required for this course. Prerequisites: None

ART 110 Art Gallery Skills II**1 credit | ELEC, HUM****Quarter(s): Sp**

Introduces the process of handling and installing artworks for the annual student exhibition. Focuses on safety practices, proper art handling methods, exhibition planning skills through communication with the juror. This is a co-curricular course with Art Club. Lab hours are required for this course.

Prerequisite: None

ART 111 Beginning Painting**3 credits | ELEC, HUM, PERF****Quarter(s): F, W, Sp**

Introduces the use of oil and acrylic painting media and the study of traditional and contemporary painting concepts and techniques. Course may include a nude model. Lab hours are required for this course.

Prerequisite: None

ART 112 Intermediate Painting**3 credits | ELEC, HUM, PERF****Quarter(s): F, W, Sp**

Presents more in-depth exploration of painting materials, techniques, and subject matter. Course may include a nude model. Lab hours are required for this course.

Prerequisite: ART 111 or Instructor permission

ART 113 Advanced Painting**3 credits | ELEC, HUM, PERF****Quarter(s): F, W, Sp**

Offers advanced painting theory and practice and the development of individual expression in subject matter and composition. Course may include a nude model. Lab hours are required for this course.

Prerequisite: ART 112 or Instructor permission

ART 121 Intro to Digital Imaging and Illustration**5 credits | ELEC, HUM****Quarter(s): W, Sp**

Introduces basic technical skills, key concepts, and software training for the creation of digital images and illustrations. Provides an overview of Adobe Photoshop and Illustrator covering the Mac operating system. Presents creation, control, and manipulation of raster images and vector graphics for print, web, and motion media. Covers tools, techniques, devices, electronic color theory, graphic formats, image and device resolution, layering and combining images. Basic computing skills recommended. Lab hours are required for this course.

Prerequisites: None

ART 122 Intermediate Digital Imaging and Illustration**5 credits | ELEC, HUM****Quarter(s): W, Sp**

Develops technical skills and concepts for the creation of digital images and illustrations. Emphasizes creation, control, and manipulation of raster images and vector graphics for print, web, and motion media. Expands knowledge of tools in Adobe Photoshop, Adobe Illustrator, and the Mac operating system. Lab hours are required for this course.

Prerequisite: ART 121 or Instructor permission

ART 123 Advanced Digital Imaging and Illustration**5 credits | ELEC, HUM****Quarter(s): W, Sp**

Expands on experiences in ART 121 and ART 122. Emphasis is placed on research, ideation, and personal expression through the creation of raster and vector graphics. Further develops knowledge of tools in Adobe Photoshop, Adobe Illustrator, and the Mac operating system. Lab hours are required for this course.

Prerequisite: ART 122 or Instructor permission

ART 131 Intro to Graphic Design**5 credits | ELEC, HUM****Quarter(s): W, Sp**

Provides an overview of Adobe InDesign covering the Mac operating system, document design, pagination, page layout, typography, copy fitting and color as they relate to both print and web communications. Includes file management, copyright and ethical issues, electronic color theory, graphic formats, image and device resolution. Basic computing skills recommended. Lab hours are required for this course.

Prerequisites: None

ART 132 Intermediate Graphic Design**5 credits | ELEC, HUM****Quarter(s): W, Sp**

Develops use of concepts and methods to create intermediate level graphic design. Emphasizes document design, layout, use of color, and typography for print and web communications. Expands knowledge of Adobe InDesign tools and Mac operating systems. Lab hours are required for this course.

Prerequisite: ART 131 or Instructor permission

ART 133 Advanced Graphic Design**5 credits | ELEC, HUM****Quarter(s): W, Sp**

Expands on experiences in ART 131 and ART 132. Emphasizes research, ideation, and the process of design thinking to achieve professional graphic design solutions for print and web communications. Advances knowledge of Adobe InDesign tools and Mac operating systems. Lab hours are required for this course.

Prerequisite: ART 132 or Instructor permission

ART 141 Beginning Ceramics**3 credits | HUM, PERF****Quarter(s): F, W, Sp**

Introduces the study of ceramic materials, and techniques including hand construction and wheel throwing. Lab hours are required for this course.

Prerequisites: None

ART 142 Intermediate Ceramics**3 credits | HUM, PERF****Quarter(s): F, W, Sp**

Involves more advanced techniques of hand construction and wheel throwing. Beginning glaze formation and kiln-firing processes are included. Lab hours are required for this course.

Prerequisite: ART 141 or Instructor permission

ART 143 Advanced Ceramics**3 credits | HUM, PERF****Quarter(s): F, W, Sp**

Continues wheel and hand forming techniques with emphasis on aesthetics, including decoration and glazing. Lab hours are required for this course.

Prerequisite: ART 142 or Instructor permission

ART 150 Black and White Darkroom Photography

3 credits | HUM, PERF

Quarter(s): F

Explores the fundamentals of black and white film photography. Introduces camera and lens operations, exposure, and composition. Students will process black and white film and make photographic prints in the darkroom. Lab hours are required for this course. Students will need their own manual 35mm SLR camera, and are responsible for purchasing film and darkroom supplies. Course supply kits will be available in the college bookstore. Prerequisites: None

ART 151 Introduction to Digital Photography

5 credits | HUM, PERF

Quarter(s): F, W

Introduces the fundamentals of digital photography; camera and lens operation, exposure, composition, and inkjet printing. Develops skills related to digital editing by using software to correct, and enhance photographs. Examines artists, and photographic techniques that influence the field of fine art photography. Lab hours are required for this course. Students must provide their own manually adjustable digital camera. Prerequisites: None

ART 152 Intermediate Digital Photography

5 credits | HUM, PERF

Quarter(s): W

Examines advanced practices of digital photography; camera and lens operation, exposure, composition, and inkjet printing. Further develops digital editing skills by using software to correct, and enhance photographs. Examines artists, and photographic techniques that influence the field of fine art photography. Lab hours are required for this course. Students must provide their own manually adjustable digital camera. Prerequisite: ART 151 or instructor permission.

ART 200 Arts Portfolio Website Design

3 credits | ELEC, HUM

Quarter(s): Sp

Explores website development tools, skills, design, and website portfolio standards for visual and performing arts. Introduces web file formats, website production steps, publishing steps, hosting and domain options. Culminates in a portfolio website documenting visual and performing arts works completed thus far along with an artist statement, bio, and resume to share professionally. Basic knowledge of raster and vector image creation or completion of ART 121 Intro to Digital Imaging and Illustration recommended. Lab hours are required for this course. Prerequisites: None

ART 209 Advanced Art Gallery Skills
2 credits | ELEC, HUM

Quarter(s): Sp

Expands knowledge of art exhibition planning and installation. Focuses on art curation and exhibition organization. Emphasizes communication and planning with the artists and the community for promotion of the annual student art exhibition, reception, and student awards. Lab hours are required for this course. This is a co-curricular course with Art Club.

Prerequisites: ART 109 or ART 110

ART 224 History of Graphic Design:
DIV

5 credits | DIV, HUM

Quarter(s): W

Investigates graphic design history via a comprehensive look at people, places and events that shaped print and web design. Examine historical and cultural factors, technological innovations, movements and designers in relation to graphic design.

Prerequisites: None

ART 226 History of Western Art I
5 credits | HUM

Quarter(s): F

History of Western Art is an investigation into the development of art from before history through the Roman Empire, approximately 35,000 BCE to 500 CE. This study includes a conceptual look at the emergence of the creative spark and why art and architecture exists. A comprehensive look at art from the prehistoric natural world, through the emergence of civilization and social organization in ancient cultures, to the glory of Greece and Rome, art continues to interpret culture and to shape contemporary lives.

Prerequisite: None

ART 227 History of Western Art II: DIV
5 credits | DIV, HUM

Quarter(s): W

History of Western Art is an investigation into the development of art from early medieval through Renaissance Europe, approximately 500 CE to 1600 CE. This study includes a comprehensive look at art and architecture as it reflects changing world views as art continues to interpret culture and to shape contemporary lives.

Prerequisite: None

ART 228 History of Western Art III: DIV
5 credits | DIV, HUM

Quarter(s): Sp

Investigates the development of art from 17th century Europe, through its introduction to America, and into 21st Century Europe and the United States. This study includes a critical evaluation of interpretations by artists through their art to address issues of difference, power, power, and discrimination. Art continues to reflect culture and to shape contemporary lives.

Prerequisite: None.

ART 230 Typography
4 credits | ELEC, HUM

Quarter(s): Sp

Introduces typographic history via projects that emphasize letter forms, use of the grid, developing typographic hierarchies and syntax, and combining type and image. Focuses on identifying and applying typographic details in order to communicate effectively. Basic design and computer skills or completion of ART 131 Intro to Graphic Design recommended. Lab hours are required for this course.

Prerequisites: None

ART 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
 Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

ART 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisites: By instructor permission only.

ASTR 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
 Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

ASTR 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisites: By instructor permission only.

Astronomy (ASTR)

ASTR& 101 Intro to Astronomy**5 credits | NSL****Quarter(s): S, F**

Provides for student investigation of information gathered on distant objects by telescope, spectrometer, radio, satellites, and other instruments. Students pursue both the knowledge and processes for acquiring knowledge of the moon, sun, planets, comets, and meteors of the solar system, distant stars, nebulae, clusters, and galaxies, and their theoretical evolution. Lab hours are required for this course. Prerequisite: None.

Automotive Technology (AMTC)

AMTC 100 Essentials of Mechanics

5 credits | REEL

Quarter(s): S, W

Develops beginning mechanical skills and knowledge essential to successful completion of the automotive and/or diesel technology program. Includes shop safety, fasteners, measurements, cutting tools, lifting, tool usage, shop orientation, manuals (including computer retrieval systems), bearings and seals, and special emphasis on preventive/predictive maintenance. Lab hours are required for this course. This is an introductory course for beginning students of Automotive or Diesel Technology. Course can be waived if student has completed principles of technology and auto program in high school.

Prerequisites: None

AMTC 104 Automotive Electrical Systems

15 credits | REEL

Quarter(s): F

Introduces the theory of electricity fundamentals including solid state technology. Discusses electrical safety. Includes solving and proving Ohm's Law in series, parallel, and series-parallel circuits. Includes automotive wiring and circuits, including how to read and understand wiring diagrams to diagnose an electrical malfunction. Covers circuit tracing and wiring repair techniques. Presents diagnosis and repair of low voltage systems (12V), including batteries, starting systems, charging systems, instrumentation and warning devices, lighting systems, power accessories, and computer operation and circuit analysis. Discusses high voltage energy and electronic ignition systems. Lab hours are required for this course.

Prerequisites: None

AMTC 105 Vehicle Climate Control

5 credits | REEL

Quarter(s): S, Sp

Introduces the theory of operation, design, diagnosis and repair of both manual and automatic heating, ventilation and air conditioning systems (HVAC) used in automobiles, trucks and heavy equipment. Emphasizes component identifications, performance testing, recovering, evacuation and recharging. Covers materials necessary to pass ASE (A7) test. Course is cross listed with DHET 105. Lab hours are required for this course.

Prerequisite: AMTC 104 or DHET 104 or Instructor Permission

AMTC 114 Automotive Chassis**15 credits | REEL****Quarter(s): W**

Introduces the theory of hydraulics, fundamentals of manual, power, drum, and disc brake systems. Covers theory, diagnosis, and repairing anti-lock brakes and traction control systems. Include scan tool diagnosis as well as functional and visual tests. Prepares the student to perform all aspects of automotive type suspension and alignment work, including powered and non-powered steering systems, inspection, diagnosis, adjustment, and repair of front and rear suspension systems, and related components such as tires and wheels. Use of four-wheel alignment equipment is an integral part of this course. Lab hours are required for this course.

Prerequisites: None

AMTC 124 Automotive Engines**15 credits | REEL****Quarter(s): Sp**

Provides introductory content for the student with little or no experience with gasoline engines. Covers theory of operation, performance factors, and routine diagnosis and maintenance of spark ignition engines. Includes removing, inspecting, cleaning, measuring, machining, re-assembling, re-installing, and testing gasoline engines. Includes rebuilding a gasoline engine. Lab hours are required for this course.

Prerequisites: None

AMTC 206 Fuels and Emissions**15 credits | REEL****Quarter(s): W**

Introduces the theory of operation, design, diagnosis and repair of automotive fuel systems. Includes injection, storage, and delivery systems. Covers materials necessary to pass ASE (A8) certification. Lab hours are required for this course.

Prerequisite: AMTC 104 or Instructor Permission

AMTC 207 Computer Engine Controls**15 credits | REEL****Quarter(s): Sp**

Introduces advanced theory, operation, diagnosis and repair of automotive fuel systems. Discusses injection, storage, and delivery systems. Covers materials necessary to pass ASE (A8 and L1) certification. Lab hours are required for this course.

Prerequisite: AMTC 104 or Instructor Permission

AMTC 214 Automotive Drivetrains**15 credits | REEL****Quarter(s): F**

Introduces hydraulic principle of pressure and force multiplication, operation, diagnosis and repair of automotive automatic transmissions and transaxles. Presents the theory of operation, diagnosis and repair of clutches, manual transmission/transaxles, drivelines, drive axles and transfer cases. Covers all of the mechanical components used to transfer power from the engine to the drive wheels - both 2 and 4 wheel drive. Lab hours are required for this course.

Prerequisite: AMTC 104 or Instructor Permission

AMTC 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

AMTC 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Biology (BIOL)

BIOL& 100 Survey of Biology**5 credits | NSL****Quarter(s): F, W, Sp**

Examines major concepts in biology -- the science of life -- and the nature of science itself and includes survey of fundamental life processes by which organisms live, grow, reproduce, and interact with their environment. This course is recommended for students interested in a brief overview of biology. Laboratory is included. Lab hours are required for this course.

Prerequisite: None

BIOL& 160 General Biology with Lab: Cell/Molecular**5 credits | NSL****Quarter(s): F, W, Sp**

Introduces cell biology including the chemistry of life, the structure, reproduction, and metabolism of cells, genetics, and evolutionary biology.

Includes inquiry based lab. Prerequisite course for BIOL& 241 (Human Anatomy and Physiology I) and BIOL& 260 (Microbiology). A grade of C or higher is required in order to advance to BIOL& 241 or BIOL& 260. Lab hours are required for this course.

Prerequisites: None Corequisites: None

BIOL& 221 Majors Ecology/Evolution: w/Lab**5 credits | NSL****Quarter(s): F**

Examines evolution, Mendelian genetics, biodiversity, and ecology. First of a three course series. Laboratory included. Lab hours are required for this course.

Prerequisites: None Corequisites: None

BIOL& 222 Majors Cell/Molecular: w/Lab**5 credits | NSL****Quarter(s): W**

Examines structure and function of biomolecules, cell structure and function, metabolism and energetics, current applications of biotechnology and molecular biology. Second of a three course series. Laboratory included. Lab hours are required for this course.

Prerequisite: None Corequisite: None

**BIOL& 223 Majors Organismal Phys:
w/Lab****5 credits | NSL****Quarter(s): Sp**

Examines organismal (animal and plant) development and physiology. Final course of a three course series. Laboratory included. Lab hours are required for this course.

Prerequisites: None

BIOL& 241 Human A & P 1**5 credits | NSL****Quarter(s): S, F, W, Sp**

Provides a study of structure and function of the human body. Topics include the cell, tissues, skeletal system, articulations, muscular system, and nervous system. This is the first of a two-course sequence. This course may not be transferable unless the entire sequence (BIOL& 241 and 242) is taken at LCC. Lab hours are required for this course.

Prerequisite: BIOL& 160, BIOL& 260 or BIOL& 222 with a grade of C or above.

Prerequisite waiver may be granted with appropriate documentation to the instructor.

BIOL& 242 Human A & P 2**5 credits | NSL****Quarter(s): S, F, W, Sp**

Continues the study of structure and function of the human body. Topics include endocrine, circulatory, lymphatic, respiratory, digestive, urinary, and reproductive systems; and fluid and electrolyte balance. This is the second part of a two-course sequence. This course may not be transferable unless the entire sequence (BIOL& 241 and 242) is taken at LCC. Laboratory is included. Lab hours are required for this course.

Prerequisites: BIOL& 241 with a C or better. Prerequisite waiver may be granted with appropriate documentation to the instructor.

BIOL& 260 Microbiology**5 credits | NSL****Quarter(s): S, F, W, Sp**

Introduces the fundamentals of microbiology, including: evolution, microbial structures and functions, metabolism, growth, genetics, classification and pathogenesis; virology; principles of infectious disease; host defenses and antimicrobial drugs. Laboratory includes techniques for isolation, cultivation and identification of microbes. Lab hours are required for this course.

Prerequisites: BIOL& 160 or BIOL& 222 with a grade of C or better or instructor permission.

BIOL 109 Energy and Life: Biological Sciences**5 credits | NSL****Quarter(s): S**

Explores energy and life on earth through the study of biodiversity, metabolism, cell structure, genetics, evolution, and ecosystems. Students will gain an understanding of the natural world, science as a field of study, and develop skills to apply and teach scientific principles in everyday life. Intended for elementary education and early childhood education majors. Part of a three quarter sequence; students are not required to take entire sequence. Includes laboratory. Lab hours are required for this course.

Prerequisite: None.

BIOL 127 Natural Science of Selected Global Regions**5 credits | NSCI****Quarter(s): W**

Focuses on the ecology of selected regions, including ecosystems and human impact on ecosystems. Investigates the biodiversity, characteristics, and interactions of the flora and fauna within various habitats and ecosystems. Involves field observations and experiences. Does not include a lab component.

Prerequisites: Enrollment in Study Abroad Program and eligible for ENGL& 101 OR instructor permission.

BIOL 130 Biodiversity of the Pacific Northwest**5 credits | NSL**

Introduces biological diversity of the major ecosystems of the Pacific Northwest (e.g. forest, riparian, wetland, estuary, and marine intertidal). Surveys common organisms of these ecosystems and students will learn fundamental biological principles as they relate to biodiversity (e.g. ecology, evolution, genetics) and the importance to human well-being, as well as the intrinsic value of biodiversity at three levels: genetic, species, and ecosystems. Students will learn methods in the lab and field for surveying, identifying, and measuring biodiversity. Students will complete original research on a group and/or ecosystem of their choice. Class will meet often outdoors and three day-long Saturday field trip(s) are required. Lab hours are required for this course.

Prerequisite: ENGL& 101 or instructor permission.

BIOL 150 Genetics and Society**5 credits | NSL****Quarter(s): W**

Introduces the discipline of genetics by interweaving classical genetics concepts with current issues including genetic diversity, the human genome, biotechnology, and genetic disorders. Presents the tools necessary for making informed decisions regarding the impact of genetic advances on individual lives and society, Laboratory includes exploration of DNA structure, DNA, gene, and protein identification, and problem solving using activities and biotechnology equipment. Lab hours are required for this course.

Prerequisites: None

BIOL 179 Human Biology & Exercise
5 credits | NSL**Quarter(s): W, Sp**

Introduces fundamental biological principles from cells to human organ systems. Provides comprehensive coverage of the physiology of exercise and its role in successful integration of exercise principles into exercise programs. Laboratory is included. Lab hours are required for this course.

Prerequisites: None

BIOL 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

BIOL 297 Special Topics in Microbiology**1 credit | NSCI****Quarter(s): F, W, Sp**

Discusses selected advanced topics in microbiology. May be repeated for credit as topics change each time course is offered.

Prerequisites: BIOL& 260 or concurrent enrollment

BIOL 298 Special Topics in Human Physiology**1 credit | NSCI****Quarter(s): F, W, Sp**

Discusses selected advanced topics in human physiology. May be repeated for credit as topics change each time course is offered.

Prerequisites: BIOL& 241 or concurrent enrollment.

BIOL 299 Independent Study
1-10 credits

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Blueprint (BLPT)

BLPT 150 Machinists Blueprint Reading**5 credits | REEL**

Provides basic general information in reading and understanding plans and drawings that will be useful to vocational students. Focusing on line and symbol conventions used in industrial blueprints and visualization of solid objects from orthographic and isometric projections, the course leads to development of required skills for industrial design and problem solving. It also provides comprehensive information needed by persons in the machine trades for reading industrial blueprints and emphasizes specifications of materials, geometrical tolerancing, surface finishes, AWS welding symbols, and related foundry processes.

Prerequisite: None

BLPT 160 Blueprint Reading for Welders**5 credits | REEL**

Provides basic general information in reading and understanding plans and drawings that will be useful to students in the welding field, focusing on identifying basic lines, dimensions, structural shapes, welding symbols, and basic joints for welding fabrication and practical layout design.

Prerequisite: MATH 106 or higher or instructor permission.

BLPT 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Business (BUS)

BUS& 101 Intro to Business**5 credits | ELEC, SOCS****Quarter(s): S, F, W, Sp**

Surveys the business environment and many important elements of business including marketing, finance, accounting, computers, labor unions, small business management, economics, and the functions of management.

Prerequisite: None

BUS& 201 Business Law**5 credits | SOCS****Quarter(s): F, W, Sp**

Introduces the law, sources of law, legal thinking, structure of courts, alternative dispute resolution, basic civil procedure, business organization, government constitutional authority and regulation, agency, employment and criminal law as relating to business, real property and landlord/tenant law, torts, international business law issues and ethics. Includes extensive concentration on contract law including Article 2 of the Uniform Commercial Code.

Prerequisites: ENGL& 101 OR BUS 119, or equivalent, with a grade of C or better, or instructor permission.

BUS 100 Foundations of Business Success**3 credits | REEL****Quarter(s): S, F, W, Sp**

Explores foundational issues for success in college that correlate to success in business. In order to improve college achievement and business acumen, students will learn strategies in reading, study habits, test-taking, communications, mathematics, critical thinking, and teamwork. Lab hours are required for this course.

Prerequisite: None

BUS 104 Business Math Applications
5 credits | REEL

Quarter(s): S, F, W, Sp

Teaches the use of basic mathematical processes to solve business applications. Topics include percentages, simple interest, compound interest, annuities, markups and markdowns, payroll, trade and cash discounts, banking, and solving problems with equations and formulas.

Prerequisite: BUS 100 or concurrent enrollment, MATH 78/79 with a grade of C or better or CCP 79 with a grade of B or better, or instructor permission. Co-requisite: BUS 100 if not applied as a prerequisite

BUS 118 Business & Corporate Ethics
5 credits | REEL

Surveys current business ethical and personal integrity issues through a case study model. Students develop an understanding of the ethical decision making process, focusing on relevant cases, making considerations through a lens of social responsibility, and current ethical perspectives. Emphasis of ethical considerations will be placed on the digital business environment, artificial intelligence, corporate social responsibility, corporate culture, gender identity, and environmental sustainability. Prerequisite: None

BUS 119 Business Communications
5 credits | REEL

Quarter(s): S, Sp

Emphasizes planning, organizing, and writing clear, concise business letters. Includes a review of grammar, punctuation, and word usage as applied to written business communication; experience in writing favorable messages. Students will present information orally and prepare a job resume and letter of application. Prerequisite: ENGL 099 (was ENGL 100) with a grade of C or better or placement test into ENGL& 101.

BUS 144 Management of Human Relations: DIV

5 credits | DIV, SOCS

Quarter(s): S, F, W, Sp

Introduces and emphasizes the many aspects of human behavior as they affect individuals and groups in the workplace. Teaches human relations skills in the context of understanding human needs, attitudes, perceptions and motivations, workforce diversity teamwork, stress management, and interpersonal communications. Focus is on management of human relations factors within an organization and understanding the effects of discrimination, prejudice, and intolerance, in the pluralistic workplace. Prerequisites: None

BUS 150 Customer Service/ Management

5 credits

Quarter(s): S, F, W, Sp

Introduces the philosophy of service excellence as it pertains to organizations in today's business environment.

Emphasis is on the effects of globalization, cultural diversity, and workforce diversity in organizations.

Topics include developing interpersonal skills, interacting effectively with employees and customers, and establishing positive relationships with employees and customers, in the pluralistic workplace. Students will learn to identify the challenges and advantages of a diverse workforce and diverse customer base.

Prerequisite: none

BUS 159 Principles of Retailing

5 credits | REEL

Quarter(s): F, Sp

Surveys retailing principles and concepts and studies store management, merchandise management, pricing, customer services, advertising, and display.

Prerequisite: None

BUS 165 Salesmanship

5 credits | REEL

Quarter(s): W

Surveys multiple aspects of selling, including the importance of selling and salespeople in business and the rewards of a sales career. Topics include: buying behaviors, the ethical and legal issues in sales, the buying process, the approach, the presentation, demonstration of merchandise, handling of objectives, closing the sale, follow-up and effective sales management.

Prerequisite: None

BUS 207 Statistical Projects

3 credits | NSCI

Provides an opportunity for students to apply the statistical processes learned in MATH& 146/MATH 246 by designing their own statistical project. Topics may include nonparametric statistics, sampling techniques, design of experiments and data analysis.

Prerequisite: MATH& 146 or MATH 246 with a grade of C or better or concurrent enrollment in MATH& 146 or MATH 246.

BUS 240 Principles of Supervision

5 credits

Quarter(s): F

Analyzes basic functions of the supervisory-level management along with emphasis on skills needed to be an effective leader/manager of a diverse workforce. Emphasis will be on the differences between supervisors and upper management.

Prerequisite: None

BUS 244 Human Resource Management

5 credits

Quarter(s): W

Introduces the fundamental concepts of Human Resource Management, including hiring skills, long-term planning, employee laws, recruitment, staffing, training, compensation programs (both direct and indirect), collective bargaining, employee relations, safety training, health and EAPs (employee assistance programs).

Prerequisite: None

BUS 245 Principles of Management
5 credits

Quarter(s): S, F, Sp

Offers the student a history of management and its various theories. Covers the principles and application of planning, organizing, leading and controlling. Students also view management from the roles of supervisory, middle and top management.

Prerequisite: None

BUS 259 Starting/Managing a Small Business

5 credits | REEL

Quarter(s): S, Sp

Surveys the characteristics of small businesses, and includes the study of planning and organizing a new business, starting up a new business, producing products or services, marketing, planning, and control. Students are required to develop and present a feasibility plan and business plan for a proposed business.

Prerequisite: ACCT 101, BUS& 101 (was BSAD 110), and BTEC 131 (was CS 121) with a grade of C- or better, or instructor permission.

BUS 264 Principles of Marketing
5 credits

Quarter(s): S, W

Presents marketing functions and their roles in the economic process, emphasizing marketing systems, product planning, promotion, and sales.

Prerequisite: BUS& 101 (was BSAD 110) or instructor permission.

BUS 265 Advertising

5 credits

Quarter(s): W

Provides an overview of the related fields of sales and advertising. The course encompasses economics of selling and selling processes and studies field of advertising with emphasis on planning, implementing, and controlling the advertising process. (Formerly known as BSAD 270)

Prerequisite: None

BUS 270 Introduction to Project Management

5 credits

Quarter(s): W, Sp

Focuses on management principles, methods, and tools to effectively plan and implement complex projects. Includes project scoping, preparation, planning, and monitoring. Covers classical techniques and new methodologies; spreadsheet-based tools; and probabilistic project simulation from strategic, tactical, and operational perspectives. Lab hours are required for this course.

Prerequisites: BTEC 131 (was CS 121) and BUS 144 with a grade of C or better, or instructor permission.

BUS 288 Cooperative Work Experience

1-15 credits

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
 Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

BUS 290 Design Thinking & Entrepreneurship**5 credits**

Explores concepts in entrepreneurship as well as introduces students to design thinking, human centered design and the theory of change model as an approach to life. It is designed to promote discovery and expand critical thinking as well as provide students with the opportunity to evaluate concepts such as ethics, social responsibility, the business model, financing a new venture, laws & regulations and business governance in relation to entrepreneurial endeavors. Lab hours are required for this course.

Prerequisites: None

BUS 294 Career Success**2 credits | REEL****Quarter(s): S, F, W, Sp**

Provides preparation for pursuing a career in business, business technology, and Information Technology with a focus on self-assessment, job search, application process documents, and interviewing techniques.

Prerequisite: Program Advisor

Permission

BUS 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Business Technology (BTEC)

BTEC 10 Keyboarding with Speed and Accuracy**1-5 credits | REEL****Quarter(s): S, F, W, Sp**

Introduces keyboarding using the computer and individualized instruction media. Provides instruction and practice on the alphabet, number, symbol, and 10-key numeric keypad. Provides an individualized skill-building program for students who need or want to increase their keyboarding accuracy. Copy paragraph material at a speed of not less than 25 words per minute for one minute with 2 or fewer errors. Lab hours are required for this course.

Prerequisites: None

BTEC 104 Introduction to Business Technology**5 credits | REEL****Quarter(s): F, Sp**

Introduces current business software and technology. Basic computer concepts and navigating within the Windows environment are discussed. Electronic communication, information retrieval, word processing, spreadsheet analysis, graphic presentation, and database management are practiced.

Prerequisite: BUS 100 Concurrent

requirements: BUS 100 if not previously taken.

BTEC 110 Keyboarding with Speed and Accuracy**1-5 credits | REEL****Quarter(s): S, F, W, Sp**

Introduces keyboarding using the computer and individualized instructional media. Provides instruction and practice on the alphabet, number, symbol, and 10-key numeric keypad. Creates an individualized skill-building program for students who need or want to increase their keyboarding accuracy. Copy paragraph material at a speed of not less than 25 words per minute for one minute with 2 or fewer errors. Lab hours are required for this course.

Prerequisites: None

BTEC 111 Word Processing I**5 credits | REEL****Quarter(s): S, F, W, Sp**

Utilizes Microsoft Word features to format, edit, maintain, merge, and reference business documents. Includes creating tables and using SmartArt graphics.

Prerequisites: BTEC 104 with a grade of C or better or instructor permission, and a minimum keyboarding speed of 35 wpm or concurrent enrollment in BTEC 105.

BTEC 112 Word Processing II**5 credits | REEL****Quarter(s): S, Sp**

Presents advanced word processing features using Microsoft Word. Examines creating letters, reports, research papers, brochures, newsletters, and other documents. Introduces customizing, proofing, automation, specialized navigation and referencing, working with shared documents, and document protection and security.

Prerequisites: BTEC 111 with a grade of C or better or instructor permission, and a minimum keyboarding speed of 45 wpm or concurrent enrollment in BTEC 105.

BTEC 120 Specialized Applications for Business**3 credits | REEL****Quarter(s): F, W**

Introduces the most current business software applications to perform various business functions. Skills learned include managing and sharing multiple forms of information, creating and understanding technical flowchart diagramming, managing timelines, resources, tasks and budgets to measure and increase productivity. Understand how to utilize specialized applications to make more informed and accurate business decisions. Students will complete a capstone project utilizing all three applications. Lab hours are required for this course.

Prerequisites: CS 110 or BTEC 104 with a C or better, or Instructor Permission

BTEC 130 Electronic Calculators I**1 credit | REEL****Quarter(s): S, F, W, Sp**

Develops speed and accuracy by touch on the ten-key electronic calculator and the computer numeric keypad. Includes using special features of a calculator and applying learned skills to business problems. This course is required for the Accounting Technician program. Lab hours are required for this course.

Prerequisite: None.

BTEC 131 Introduction to Spreadsheets**5 credits | REEL****Quarter(s): F, W, Sp**

Introduces the use of spreadsheet programs in business applications. Provides practical experience in using a spreadsheet to solve common business problems. (Formerly CS 121)

Prerequisites: BTEC 104 or CS 110, and BUS 104 or MATH 88 or MATH 97 or CCP 88 or CCP 97, with a C or higher, or instructor permission.

BTEC 135 Advanced Data Analysis**5 credits | REEL****Quarter(s): F, W, Sp**

Offers an introduction to the study and use of computerized database management systems and advanced spreadsheet topics. This course provides basic database theory and application in a disciplined approach to problem solving in a business environment. Explores complex spreadsheet features such as macros, data management, and advanced formulas and functions to solve business problems. Demonstrates spreadsheets as business analytics and statistical analysis tools. Explores the integration features of both applications to find advanced data analysis solutions for informed business decisions.

Prerequisites: BTEC 131 (was CS 121) with a grade of C or better, or instructor permission.

BTEC 145 Introduction to MS Word**1-5 credits | REEL****Quarter(s): S, F, W, Sp**

Introduces students to Microsoft Word features that may be used in both personal and business environments. Topics include basic and intermediate-level document formatting. Students will have an opportunity to complete the MOS Word Core Certification to earn a credential for MS Word Proficiency. This course is offered as an elective for students who wish to increase their technical expertise with computer applications. Lab hours are required for this course.

Prerequisites: None

BTEC 146 Powerpoint Fundamentals**2 credits | REEL****Quarter(s): S, F, W, Sp**

Introduces presentation graphics, using Microsoft PowerPoint to create electronic slide shows. Students create and edit slide shows, apply templates, format slides, enter text, print presentations, create charts, and employ other graphical functions and features. Includes a basic coverage of design for presentation best practices. Students will have the opportunity to complete the Microsoft Office Applications Exam for PowerPoint. Lab hours are required for this course.

Prerequisites: None

BTEC 147 Introduction to Digital Publishing**3 credits | REEL****Quarter(s): S, F, W, Sp**

Provides hands-on instruction using Microsoft Publisher, image editing applications, and video editing applications. Emphasizes formatting and enhancing text, developing styles, using columns and tables with special effects, working with graphics, and producing short videos to create professional-looking publications for both print and social media. Students will complete a final comprehensive presentation project. Lab hours are required for this course.

Prerequisites: None

BTEC 148 Introduction to Outlook**2 credits | REEL****Quarter(s): F, W, Sp**

Offers an introduction to using Microsoft Outlook communication and scheduling as a business tool. This course is designed to prepare students with a full understanding of features available in Microsoft Outlook. Topics include email, contacts, schedule management, and instant messaging. Lab hours are required for this course.

Prerequisite: None

BTEC 150 Introduction to Google Applications**3 credits | REEL****Quarter(s): S, F, W, Sp**

Introduces Google Application features that may be used in both personal and business environments. Topics include web-based communication, collaboration, media, and locational tools. Students will use web-based tools to create and manage a Google Site. Lab hours are required for this course.

Prerequisites: None.

BTEC 155 Website Management**3 credits | REEL****Quarter(s): S, F, W, Sp**

Covers the processes involved in identifying client needs, target audience, and content management for website deployment. Students will explore domain name management, ISP relationships, media management, user group management, and integration of evolving technology. Students will learn to use an advanced data analytics tool to evaluate website traffic. Lab hours are required for this course.

Prerequisites: None

BTEC 160 Medical Scribe**3 credits | REEL****Quarter(s): S, W**

Introduces working alongside physicians and healthcare practitioners to document patient encounters in an electronic records system, build a medical record, and chart patient progress and interactions for accuracy in the medical billing process.

Prerequisites: ENGL& 101, BTEC 181 OR MEDA 101, AND MEDA 120 OR BIOL& 241 AND BIOL& 242; all courses must be completed with a C or better.

BTEC 161 Intro to ICD-10 Coding in the Medical Office Part I**5 credits | REEL****Quarter(s): F**

Covers the rules and guidelines utilized in the assignment of ICD-10 codes. Students will select and assign the appropriate codes to diagnoses and procedures performed in both inpatient and outpatient settings, and learn to extract diagnoses from a patient's record. Lab hours are required for this course.

Prerequisite: BTEC 181 and MEDA 120, both with a grade of C or higher or Instructor Permission

BTEC 162 Intro to ICD-10 Coding in the Medical Office Part II**5 credits | REEL****Quarter(s): W**

Continues to develop and reinforce the rules and guidelines utilized in the assignment of ICD-10 codes. Students will select and assign the appropriate codes to diagnoses and procedures performed in both inpatient and outpatient settings. Lab hours are required for this course.

Prerequisite: BTEC 161 with a grade of C or better or instructor permission.

BTEC 163 CPT Coding**5 credits | REEL****Quarter(s): Sp**

Introduces the rules and guidelines of Current Procedural Terminology (CPT) coding, which are utilized in the reimbursement of outpatient procedures and surgeries. Students learn to use the CPT coding book. Course also introduces the evaluation and management processes used for physician reimbursement and the government regulations regarding CPT coding. Lab hours are required for this course.

Prerequisites: BTEC 162 with grade C or better or instructor permission.

BTEC 164 Medical Office Law & Ethics**2 credits | REEL****Quarter(s): S, F, W, Sp**

Presents the legal, ethical, and bioethical issues relevant to medical office settings. Course features legal cases and legislation. Topics include patient confidentiality, advance directives, consents, professional liability, medical malpractice, release of information, and the professional code of ethics. Lab hours are required for this course.

Prerequisite: None

BTEC 165 Cultural Awareness for Care Professionals: DIV

5 credits | DIV, REEL

Quarter(s): Sp

Explores the cultural disparities in healthcare. Examines cultural and linguistic differences which limit the access to healthcare or prevent the adoption of health promoting or harm-reducing behaviors. Presents effective cross-cultural communication through the use of relevant languages, respectful attitudes, and cultural knowledge.

Provides strategies to apply cultural awareness skills in all aspects of work with clients, families, community members, and colleagues.

Prerequisites: None

BTEC 168 Billing & Coding Exam Certification Preparation

2 credits | REEL

Quarter(s): S, F

The Billing & Coding Exam Certification Preparation course reviews essential medical coding skills for professional healthcare services and prepares the student to take any of a variety of exams for industry-level certification. The course covers CPT®, HCPCS and ICD-10-CM coding with hands-on practice coding using medical records that incorporate CPT®, ICD-10-CM, and HCPCS Level II code sets.

Prerequisites: BTEC 163

BTEC 170 Community Health Advocacy

5 credits | REEL

Quarter(s): S, F, Sp

Provides an overview of information and skills utilized by Community Health Workers (CHW) to foster healthy behavior changes in clients; including, providing people with information, tools, and encouragement to help them improve their health and stay healthy over time. Explores working with clients, family or community members, and with health and wellness providers to address issues that may limit opportunities for healthy behavior. Examines the Community Healthcare Workers role as health educator, wellness coach, and advocate.

Prerequisites: None

BTEC 171 Medical Reception Procedures

3 credits | REEL

Quarter(s): F

Provides a foundation of basic knowledge and skills for employment in a physician's office or clinic. Includes the topics of reception techniques, medical records and related laws, professional communication, appointment scheduling, telephone procedures, and office maintenance.

Prerequisites: ENGL 099 (was ENGL 100) or higher.

BTEC 172 Medical Office Procedures**3 credits | REEL****Quarter(s): W**

Provides instruction and practice for advanced administrative support skills in the medical office. Topics include: payroll, banking, fee schedules, credit and collections, patient and insurance billing, bookkeeping, coding, and professional communication.

Prerequisites: ENGL 099 (was ENGL 100) or instructor permission, MATH 79 or CCP 79, and BTEC 171, all with a grade of C or better.

BTEC 173 Computers in the Medical Office**3 credits | REEL****Quarter(s): Sp**

Introduces computer software programs and electronic health records used in healthcare practice management.

Prepares students to complete administrative tasks in healthcare, including bookkeeping, billing, claims submission, appointment scheduling. Presents various computer functions including those completed in electronic health records.

Prerequisites: BTEC 172 with grade C or better

BTEC 176 Social Determinants of Health**5 credits | REEL****Quarter(s): F, W**

Introduces the underlying social factors that contribute to health, wellness, and illness. Elaborates on the interplay of social, economic, behavioral, environmental, and other factors that influence the health of populations and sub-groups. Explores how an understanding of determinants of health can influence public policy, planning, and research to promote a healthier society with greater health equity.

Prerequisites: None

BTEC 177 Trauma Informed Care**5 credits | REEL****Quarter(s): W, Sp**

Introduces the field of trauma and trauma-informed care. Examines the history of traumatic studies, as well as the current trauma-informed approaches to understanding the providing positive interventions for human psychological trauma. Presents trauma-informed approaches designed to provide healing and self-care to survivors. Addresses vicarious trauma and the need for practitioner self-care.

Prerequisites: None

BTEC 178 Building Sustainable Community Capacity**5 credits | REEL****Quarter(s): Sp**

Presents knowledge and skills necessary for Community Health workers as community organizers and capacity builders. Explores necessary components of promoting community action and garnering support and resources from the community to implement new health and wellness activities. Discusses skills and knowledge needed to motivate individuals and organizations to seek policy and social changes.

Prerequisite: BTEC 176

BTEC 181 Medical Terminology I**3 credits | REEL****Quarter(s): S, F, W, Sp**

Provides a foundation for building a medical vocabulary including the study of prefixes, roots, suffixes, combining forms, and pronunciation. Emphasis is on using medical terms accurately in documenting and reporting patient care procedures.

Prerequisite: None

BTEC 182 Medical Terminology II**3 credits | REEL****Quarter(s): S, F, W, Sp**

Continues the focus of BTEC 181 incorporating actual medical records and demonstrating how medical terminology is used in the clinical setting.

Prerequisite: BTEC 181 or MEDA 101 each with a grade of C or better.

BTEC 20 Specialized Applications for Business**3 credits | REEL****Quarter(s): S, F, W, Sp**

Introduces the most current business software applications to perform various business functions. Skills learned include managing and sharing multiple forms of information, creating and understanding technical flowchart diagramming, managing timelines, resources, tasks and budgets to measure and increase productivity. Understand how to utilize specialized applications to make more informed and accurate business decisions. Lab hours are required for this course.

Prerequisites: CS 110 or BTEC 104 with a C or better, or Instructor Permission

BTEC 230 Electronic Calculators II**2 credits | REEL****Quarter(s): S, F, W, Sp**

Develops speed and accuracy by touch on the ten-key electronic calculator and the computer numeric keypad. Includes using special features of a calculator and applying learned skills to business problems. This course is required for all BTEC degree programs. Lab hours are required for this course.

Prerequisite: None

BTEC 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

BTEC 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

BTEC 45 Introduction to MS Word**1-5 credits | REEL****Quarter(s): S, F, W, Sp**

Introduces students to Microsoft Word features that may be used in both personal and business environments. Topics include basic and intermediate-level document formatting. This elective course is intended for basic skills for pre-college students. Lab hours are required for this course.

Prerequisites: None

BTEC 46 Powerpoint Fundamentals**2 credits | REEL****Quarter(s): S, F, W, Sp**

Introduces presentation graphics, using Microsoft PowerPoint to create electronic slide shows. Students create and edit slide shows, apply templates, format slides, enter text, print presentations, create charts, and employ other graphical functions and features. Includes a basic coverage of design for presentation best practices. Lab hours are required for this course.

Prerequisites: None

BTEC 47 Introduction to Digital Publishing**3 credits | REEL****Quarter(s): S, F, W, Sp**

Provides hands-on instruction using Microsoft Publisher, image editing applications, and video editing application. Emphasizes formatting and enhancing text, developing styles, using columns and tables with special effects, working with graphics, and producing short videos to create professional-looking publications for both print and social media. Lab hours are required for this course.

Prerequisites: None

BTEC 50 Introduction to Google Applications**3 credits | REEL****Quarter(s): S, F, W, Sp**

Introduces Google Application features that may be used in both personal and business environments. Topics include web-based communication, collaboration, media, and locational tools. Lab hours are required for this course.

Prerequisites: None.

BTEC 55 Website Management**3 credits | REEL****Quarter(s): S, F, W, Sp**

Covers the processes involved in identifying client needs, target audience, and content management for website deployment. Students will explore domain name management, ISP relationships, media management, user group management, and integration of evolving technology. Lab hours are required for this course.

Prerequisites: None

Chemistry (CHEM)

CHEM& 100 Preparatory Chemistry **5 credits**

Quarter(s): S, F, W, Sp

Introduces the world of chemistry through the exploration of matter and the basic properties related to what our surroundings are composed of. Students will examine laws, formulas, reactions, and structure governing all substances and their interactions. Prepares students for further study in chemistry. No credit is given to those with one year of recent high school chemistry credit.

Prerequisite: None

CHEM& 110 Chemical Concepts w/Lab **5 credits | NSL**

Quarter(s): S, F, W, Sp

Provides an exploration of our universe through the study of atomic structure, interactions between matter and energy, and everyday encounters with chemistry (technology, environment, energy, materials, foods, etc.). This course is primarily for non-science majors planning to transfer. Laboratory is included. Lab hours are required for this course.

Prerequisite: Completion of or concurrent enrollment in MATH 79 or CCP 79.

CHEM& 121 Intro to Chemistry

5 credits | NSL

Quarter(s): S, F, W, Sp

Provides an exploration of the matter that makes up our universe through the study of atomic structure, gases, solutions, acids and bases, stoichiometry, and reactions. This course is primarily for non-science majors preparing for careers in the health sciences and related fields. Laboratory is included. Lab hours are required for this course.

Prerequisite: CHEM& 100 or CHEM& 110 or one year of high school chemistry, and completion of, or concurrent enrollment in MATH 88 or MATH 87 or CCP 88 or CCP 97.

CHEM& 131 Intro to Organic/Biochem **5 credits | NSL**

Quarter(s): Sp

Explores the chemistry of carbon compounds including structures, nomenclature, and properties of basic organic compounds with an emphasis on biochemical substances and applications. Includes families of alkanes, alkenes, alcohols, ethers, aldehydes, ketones, acids, proteins, carbohydrates, and other biochemical materials. This course is primarily for non-science majors preparing for careers in the health sciences and related fields. Laboratory is included. Lab hours are required for this course.

Prerequisite: CHEM& 121 (was CHEM 111) or CHEM& 161 (was CHEM 151).

CHEM& 161 General Chem w/Lab I
5 credits | NSL**Quarter(s): F, W**

Provides an in-depth study of chemistry formulas and equations, mathematics, gas laws, atomic theory, solution chemistry, periodic law, electron configurations, the mole concept and stoichiometry. This is the first of a three-quarter sequence designed for science majors. Laboratory is included. Lab hours are required for this course.

Prerequisites: MATH 98 or CCP 98 with CHEM& 100; OR MATH 98 with high school chemistry; OR MATH& 142

CHEM& 162 General Chem w/Lab II
5 credits | NSL**Quarter(s): F, W, Sp**

Provides the applications portion of the year-long study of chemistry. This course examines bonding and molecular theory, intermolecular forces, solids, liquids, and gases, solutions, acids, bases, salts, pH, kinetics, equilibrium, electrochemistry, and an introduction to thermodynamics. This is the second in a three-quarter sequence designed for science majors. Laboratory is included. Lab hours are required for this course.

Prerequisites: C or better in CHEM& 161

CHEM& 163 General Chem w/Lab III
5 credits | NSL**Quarter(s): S, Sp**

Examines, in more detail, equilibrium, thermodynamics, and descriptive chemistry of elements and their compounds. Topics in kinetics and equilibrium are revisited to enhance students' comprehension and understanding. The course ends with a survey of several areas of chemistry including coordination chemistry, nuclear and radiochemistry, nanochemistry, organic chemistry, and biochemistry with special emphasis on relevant and inspiring aspects of these topics. Laboratory is included. Lab hours are required for this course.

Prerequisites: C or better in CHEM& 162

CHEM& 261 Organic Chem w/Lab I
5 credits | NSL**Quarter(s): F**

Explores the chemistry of organic compounds including structures, nomenclature, bonding, and properties of basic organic compounds. The course covers the families of alkanes, alkenes, and alkynes, and discusses functional groups and stereochemistry and their roles in chemical properties. This is the first in a three-quarter sequence designed for science majors in chemistry-related fields. Laboratory is included. Lab hours are required for this course.

Prerequisite: CHEM& 163 (was CHEM 153) or instructor permission.

CHEM& 262 Organic Chem w/Lab II**5 credits | NSL****Quarter(s): W**

Continues the exploration of the chemistry of organic compounds including structures, nomenclature, and synthesis of basic organic compounds. The course covers the families of alkyl halides, alcohols, aldehydes, ketones, and other groups of compounds. Reactions and synthesis of various compounds of these families will be studied and performed. Products of the processes will be examined using physical and spectroscopic means. This is the second in a three-quarter sequence designed for science majors in chemistry-related fields. Laboratory is included. Lab hours are required for this course.

Prerequisite: CHEM& 261 (was CHEM 251).

CHEM& 263 Organic Chem w/Lab III**5 credits | NSL****Quarter(s): Sp**

Continues the exploration of the chemistry of organic compounds including structures, nomenclature, and synthesis of basic organic compounds. The course covers the families of amines, carbonyls, aromatics, biochemical compounds and other groups of compounds. Reactions and synthesis of various compounds will be studied and performed. Products of these processes will be examined using physical and spectroscopic means. The course includes a qualitative analysis of organic compounds. This is the third of a three-quarter sequence designed for science majors in chemistry-related fields. Laboratory is included. Lab hours are required for this course.

Prerequisite: CHEM& 262 (was CHEM 252).

CHEM 231 Quantitative Analysis**5 credits | NSL****Quarter(s): Sp**

Provides a study of the qualitative and quantitative analytical applications of chemistry including the mathematical treatment of data collected. It will examine gravimetric and volumetric wet chemical analysis. Instrumental analysis of both organic and inorganic substances will be done. This is a one-quarter course required for students who are chemistry and chemical engineering majors. Lab hours are required for this course.

Prerequisite: Completion of, or concurrent enrollment in CHEM& 163 (was CHEM 153).

CHEM 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission. Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

CHEM 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Chinese (CHIN)

CHIN& 121 Chinese I: DIV **5 credits | HUM, DIV**

Introduces Mandarin language and Chinese culture. Emphasizes listening, pronunciation, basic vocabulary and fundamentals of grammar. Introduces Chinese characters. Explores Chinese culture, including social interaction, family relationships, artistic expression, and values.

Prerequisite: None

CHIN& 122 Chinese II: DIV **5 credits | DIV, HUM**

Continues the study of the Mandarin language and Chinese culture, building on the basic language skills. Enhances abilities with pronunciation, grammar and vocabulary. Further explores Chinese culture, including proverb and folk stories. Expands on recognition and writing of Chinese characters.

Prerequisites: None

CHIN& 123 Chinese III: DIV **5 credits | DIV, HUM**

Continues the study of the Mandarin language and Chinese culture, expanding on previous knowledge to develop beginning fluency in understanding, speaking, reading, and writing Mandarin. Further explores Chinese culture and regional identities.

Prerequisite: None

CHIN 288 Cooperative Work Experience **1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

CHIN 299 Independent Study **1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisites: By instructor permission only.

College and Career Preparation (CCP)

CCP 11 Educational Interview **1-20 credits**

Quarter(s): S, F, W, Sp

Develop and monitor a personal plan of action to reach personal, educational, and workplace goals through an orientation to the college community and the College Career and Prep program, resources, and services.

Prerequisites: CASAS completion

CCP 13 Educational Interview II**1-20 credits****Quarter(s): S, F, W, Sp**

Develop and monitor a personal plan of action to reach personal, educational, and workplace goals through an orientation to the college community and the College Career and Prep program, resources, and services.

Prerequisites: CASAS completion

CCP 15 Educational Interview III**1-20 credits****Quarter(s): S, F, W, Sp**

Develop and monitor a personal plan of action to reach personal, educational, and workplace goals through an orientation to the college community and the College Career and Prep program, resources, and services.

Prerequisites: CASAS completion

CCP 17 Educational Interview IV**1-20 credits****Quarter(s): S, F, W, Sp**

Develop and monitor a personal plan of action to reach personal, educational, and workplace goals through an orientation to the college community and the College Career and Prep program, resources, and services.

Prerequisites: CASAS completion

CCP 21 I-BEST Support**1-20 credits****Quarter(s): S, F, W, Sp**

A high adult secondary education level ABE course for students who are currently working or preparing to work in a specific job area and who are enrolled in an I-BEST program.

The course integrates math, reading, writing, listening and speaking skills with the linguistic requirements of the job.

The content of this course varies each time it is offered. It may include English language skills for specific content areas such as certification for childcare workers, English language skills for Health Services, etc.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236 and higher or instructor permission.

CCP 23 I-BEST Support II**1-20 credits****Quarter(s): S, F, W, Sp**

A high adult secondary education level ABE course for students who are currently working or preparing to work in a specific job area and who are enrolled in an I-BEST program.

The course integrates math, reading, writing, listening and speaking skills with the linguistic requirements of the job.

The content of this course varies each time it is offered. It may include English language skills for specific content areas such as certification for childcare workers, English language skills for Health Services, etc.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236 and higher or instructor permission.

CCP 25 I-BEST Support III**1-20 credits****Quarter(s): S, F, W, Sp**

A high adult secondary education level ABE course for students who are currently working or preparing to work in a specific job area and who are enrolled in an I-BEST program. The course integrates math, reading, writing, listening and speaking skills with the linguistic requirements of the job.

The content of this course varies each time it is offered. It may include English language skills for specific content areas such as certification for childcare workers, English language skills for Health Services, etc.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236 and higher or instructor permission.

CCP 27 I-BEST Support IV**1-20 credits****Quarter(s): S, F, W, Sp**

A high adult secondary education level ABE course for students who are currently working or preparing to work in a specific job area and who are enrolled in an I-BEST program.

The course integrates math, reading, writing, listening and speaking skills with the linguistic requirements of the job.

The content of this course varies each time it is offered. It may include English language skills for specific content areas such as certification for childcare workers, English language skills for Health Services, etc.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236 and higher or instructor permission.

CCP 30 CCP Spanish Culture and Language**1-20 credits****Quarter(s): S, F, W, Sp**

Develop basic communication abilities in Spanish. Provide an opportunity for learning about other Spanish speaking cultures. Students practice both speaking and writing with classmates and Native Spanish speakers. Compares and contrasts Latin American and American cultures.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 31 CCP English 098**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 246 and higher

CCP 32 CCP Math Level B**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a High Adult Secondary Education math course.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 33 CCP Lab Science**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a High Adult Secondary Education English reading and writing course contextualized in science.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 34 CCP Civics**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a High Adult Secondary Education English reading and writing course contextualized in government.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 37 CCP COLL 101**1-20 credits****Quarter(s): S, F, W, Sp**

Explores foundational issues for success in college, including an introduction to campus resources, college culture, and digital communication skills. Develops behaviors and attitudes characteristic of successful students; develops basic reading, study, and test-taking strategies; and creates a plan for success during the next quarter and beyond. Identifies and assesses individual strengths, skills, and characteristics in order to create personal, academic, and career goals; explore and research possible career pathways to achieve goals.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236 and higher or instructor approval.

CCP 38 CCP Health**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills while focusing on health and nutrition in order to enhance their personal, social, and workplace environments in a health course. Students will gain an understanding of the effects nutrition and environmental factors have on the body and how to set personal goals to improve their overall health.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 40 CCP Electives**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in an ABE Electives course.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 41 CCP English**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a High Adult Secondary Education English reading and writing course.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 43 CCP Science**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a High Adult Secondary Education English reading and writing course contextualized in science.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 44 CCP US History**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in an ABE high adult secondary US History and Government education course.

Focuses on the causes and effects of social, cultural, political, intellectual and economic change over the years in the United States.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 45 CCP Washington State History**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen English communication skills in order to enhance their personal, social, and workplace environments in a high adult secondary education ABE Washington State history course.

Provides a social, political, economic history of the Pacific Northwest with particular emphasis on the State of Washington, including Native American history and gender/ethnic history.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 46 CCP Current World History**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in an ABE Contemporary History course. Focuses on current world events, issues and problems. Highlights recent historical events and examines the causes and effects on geopolitics, environments, and population.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 47 CCP Occupational**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen a student's communication, technology, and/or interpersonal skills in order to enhance their personal, social, and workplace environments in an ABE Occupational Education course. The course reflects knowledge gained through prior life experience, occupational achievement, or demonstrable skill and can be quantified by writing, display and evidence collection.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 48 CCP Fitness**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills while focusing on health, nutrition, and fitness in order to enhance their personal, social, and workplace environments in a CCP Fitness Education course. Students will gain an understanding of the effects exercise and environmental factors have on the body and how to set personal goals to improve their overall health. Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 49 CCP Fine Arts**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills while focusing on artistic understanding and appreciation in order to enhance the personal, social, and workplace environments of students in an ABE Fine Arts course. Students will gain a deeper understanding of the arts and how to evaluate the impressions gained by exposure to different forms of media. Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

CCP 51 Contextualized Integrated Eng & Math**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education integrated course (integrating reading, writing, math, and technology). Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher or instructor approval

CCP 53 Contextualized Integrated Eng & Math II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education integrated course (integrating reading, writing, math, and technology).

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher or instructor approval

CCP 55 Contextualized Integrated Eng & Math III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education integrated course (integrating reading, writing, math, and technology).

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher or instructor approval

CCP 57 Contextualized Integrated Eng & Math IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education integrated course (integrating reading, writing, math, and technology).

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher

CCP 71 Contextualized English**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 236-245 or instructor approval

CCP 73 Contextualized English II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 236-245 or instructor approval

CCP 75 Contextualized English III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 236-245 or instructor approval

CCP 77 Contextualized English IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 236-245 or instructor approval

CCP 79 CCP Math 79/Level C**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 221-235 or instructor approval

CCP 81 Pre-College English**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 246 and higher or instructor approval

CCP 83 Pre-College English II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 246 and higher or instructor approval

CCP 85 Pre-College English III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 246 and higher or instructor approval

CCP 87 Pre-College English IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 246 and higher or instructor approval

CCP 88 CCP Math 88/Level D**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245 or instructor approval

CCP 97 CCP Math 97/D Enhanced**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245 or instructor approval

CCP 98 CCP Math 98/Level E**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher or instructor approval

CCPNG 61 CCP Math Level B**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low intermediate basic education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 201-220

CCPNG 63 CCP Math Level B II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low intermediate basic education math course. Lab hours are required for this course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 201-220

CCPNG 65 CCP Math Level B III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low intermediate basic education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 201-220

CCPNG 67 CCP Math Level B IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low intermediate basic education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 201-220

CCPNG 71 CCP Math 78/Level C**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 221-235

CCPNG 73 CCP Math 78/Level C II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 221-235

CCPNG 75 CCP Math 78/Level C III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 221-235

CCPNG 77 CCP Math 78/Level C IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 221-235

CCPNG 81 CCP Math 88/Level D**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245 or instructor approval

CCPNG 82 CCP Math 87/D Enhanced 1-20 credits**Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245

CCPNG 83 CCP Math 88/Level D II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245 or instructor approval

CCPNG 84 CCP Math 87/D Enhanced II 1-20 credits**Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245

CCPNG 85 CCP Math 88/Level D III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245 or instructor approval

CCPNG 86 CCP Math 87/D Enhanced III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245

CCPNG 87 CCP Math 88/Level D IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245

CCPNG 88 CCP Math 87/D Enhanced IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245

CCPNG 91 CCP Math 98/Level E**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher

CCPNG 93 CCP Math 98/Level E II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher

CCPNG 95 CCP Math 98/Level E III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher

CCPNG 97 CCP Math 98/Level E IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher

College Success (COLL)

COLL 101 College Success 101

2 credits | REEL

Quarter(s): S, F, W, Sp

Explores foundational issues for success in college, including an introduction to campus resources, college culture, and digital communication skills. Develops behaviors and attitudes characteristic of successful students; develops basic reading, study, and test-taking strategies; and creates a plan for success during the next quarter and beyond. Identifies and assesses individual strengths, skills, and characteristics in order to create personal, academic, and career goals; explore and research possible career pathways to achieve goals. Lab hours are required for this course.

Prerequisites: None Corequisites: None

COLL 108 Service Learning

3 credits | REEL

Quarter(s): W

Provides opportunities for the improvement of written and oral communication skills. Integrates international students into service learning projects that teach about American culture, skills for future careers, and to build relationships. Requires students to devise a plan for service learning project, set goals for the project and measure overall success. Develops relationships with community partners and helps students learn about accountability and about life in America. This course will be required for all international students as they enter Lower Columbia College or upon successful completion of all IESL courses. Lab hours are required for this course.

Prerequisites: Instructor permission.

COLL 110 Test of Essential Academic Skills (TEAS) Preparation

2 credits | REEL

Quarter(s): Sp

Supports students in preparing for the Test of Essential Academic Skills (TEAS), which is a requirement for the application to the Nursing Program at Lower Columbia College. Reviews TEAS academic skills for reading, math, science, and English language usage. Suggests effective study skills and strategies, including time management, cognitive learning process, stress and its effect on memory, test anxiety, and test-taking strategies. Provides information about TEAS testing at the LCC Testing Center. Lab hours are required for this course.

Prerequisites: None

COLL 288 Cooperative Work Experience

1-15 credits

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

COLL 289 Employment Portfolio Seminar

1 credit | REEL

Provides students with skills and tools necessary to apply for employment. Seminar topics include but are not limited to employment portfolio, preparing for job interviews, and use of resources in the LCC Career and Employment Center. Prerequisites: None

COLL 74 Math Success

3 credits

Emphasizes the attributes of a successful math student by providing strategies for time-management, note-taking, problem solving, and overcoming math and test-taking anxiety. Explores learning styles and positive growth mindset. Students will develop study skills necessary to be successful in math courses.

Prerequisites: None

Communication Studies (CMST)

CMST& 210 Interpersonal Communication

5 credits | HUM

Quarter(s): S, F, W, Sp

Explores how communication develops and changes relationships. Addresses theories and principles of interpersonal communication, including perception, self concept, feedback, listening, nonverbal communication, empathy and disclosure, and handling conflict with an emphasis on skill building and improvement. Personal, family, and working contexts are considered.

Prerequisite: None

CMST& 220 Public Speaking

5 credits | HUM, ELEC

Quarter(s): S, F, W, Sp

Examines the planning, development, and delivery of informative and persuasive speeches. Emphasis is given to effective structure and support of ideas, establishing credibility, audience analysis, language use, speaker anxiety, verbal and nonverbal presentation skills, and listening. Self-critiques are also stressed. (Formerly SPCH 110)

Prerequisite: None

CMST& 230 Small Group Communication**5 credits | HUM****Quarter(s): S, F, W, Sp**

Introduces principles and processes of small groups and development of skills for participation and leadership in small group settings. Practice in problem solving, decision making, information sharing, and the and the relational aspects of small group work. Includes analysis and evaluation of project-based small group work. Students will apply small group communication concepts to analyze their own work in a variety of structured discussions and activities.

Prerequisite: None.

CMST& 240 Intercultural Communication: DIV**5 credits | DIV, HUM****Quarter(s): W, Sp**

Examines the intercultural aspects of human communication. Emphasizes the significance of communicating across cultural lines of cultural differences in today's world. Focuses on cultural identity, differing behaviors and values, historical context, language and nonverbal expression, intercultural transitions, and conflict. Emphasizes application of theory and skills designed to increase competence in intercultural communication. Meets the diversity requirement.

Prerequisites: None

CMST 126 Competitive Public Speaking**2 credits****Quarter(s): F**

Provides investigation and practice in background, format, procedures and evaluation criteria of forensics events. Students must participate in a minimum of two intercollegiate tournaments. Lab hours are required for this course.

Prerequisite: None

CMST 127 Competitive Public Speaking**2 credits****Quarter(s): W**

Provides investigation and practice in background, format, procedures and evaluation criteria of forensics events. Students must participate in a minimum of two intercollegiate tournaments. Lab hours are required for this course.

Prerequisite: None

CMST 128 Competitive Public Speaking**2 credits****Quarter(s): Sp**

Provides investigation and practice in background, format, procedures and evaluation criteria of forensics events. Students must participate in a minimum of two intercollegiate tournaments. Lab hours are required for this course.

Prerequisite: None

CMST 136 Intercollegiate Debate**2 credits****Quarter(s): F**

Provides investigation and practice in oral problem solving through the debate format. The student is expected to attend a minimum of two debate tournaments. Lab hours are required for this course.

Prerequisite: None

CMST 137 Intercollegiate Debate**2 credits****Quarter(s): W**

Provides investigation and practice in oral problem solving through the debate format. The student is expected to attend a minimum of two debate tournaments. Lab hours are required for this course. Prerequisite: None

CMST 138 Intercollegiate Debate**2 credits****Quarter(s): Sp**

Provides investigation and practice in oral problem solving through the debate format. The student is expected to attend a minimum of two debate tournaments. Lab hours are required for this course. Prerequisite: None

CMST 226 Competitive Public Speaking**2 credits****Quarter(s): F**

Provides investigation and practice in background, format, procedures and evaluation criteria of forensics events. Students must participate in a minimum of two intercollegiate tournaments. Lab hours are required for this course. Prerequisite: None

CMST 227 Competitive Public Speaking**2 credits****Quarter(s): W**

Provides investigation and practice in background, format, procedures and evaluation criteria of forensics events. Students must participate in a minimum of two intercollegiate tournaments. Lab hours are required for this course. Prerequisite: None

CMST 228 Competitive Public Speaking**2 credits****Quarter(s): Sp**

Provides investigation and practice in background, format, procedures and evaluation criteria of forensics events. Students must participate in a minimum of two intercollegiate tournaments. Lab hours are required for this course. Prerequisite: None

CMST 236 Intercollegiate Debate**2 credits****Quarter(s): F**

Provides investigation and practice in oral problem solving through the debate format. The student is expected to attend a minimum of two debate tournaments. Lab hours are required for this course. Prerequisite: None

CMST 237 Intercollegiate Debate**2 credits****Quarter(s): W**

Provides investigation and practice in oral problem solving through the debate format. The student is expected to attend a minimum of two debate tournaments. Lab hours are required for this course. Prerequisite: None

CMST 238 Intercollegiate Debate**2 credits****Quarter(s): Sp**

Provides investigation and practice in oral problem solving through the debate format. The student is expected to attend a minimum of two debate tournaments. Lab hours are required for this course. Prerequisite: None

CMST 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

CMST 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisite: By instructor permission only.

CMST 330 Professional/Organizational Communications**5 credits****Quarter(s): F**

Provides students a foundation in communication principles in an organizational setting, including the consideration, analysis, and criticism of the role of communication in organizational contexts. Explore various communication topics including public relations and marketing, leadership functions, dispute resolution, coaching and mentoring, global perspectives, and the role of e-communication. Students will learn the steps of a communication audit and techniques for improving organizational communication.

Prerequisite: ENGL& 101

Computer Science (CS)

CS 110 Introduction to Microcomputer Applications**3 credits | ELEC****Quarter(s): S, F, W, Sp**

Introduces microcomputers and software applications. Presents Windows, word processing, and electronic spreadsheets basics.

Prerequisite: Ability to use a keyboard

CS 170 Fundamentals of Computer Programming**5 credits | ELEC****Quarter(s): F, W, Sp**

Offers an introduction to computer programming concepts and the development of applications. Program development, style, testing, and documentation are presented, discussed and applied using the C++ programming language. This course is a beginning course for CS majors and others, such as engineering transfer students, wishing an introduction to structured computer programming. Lab hours are required for this course.

Prerequisites: MATH 88 or MATH 97 with a grade of C or better; or CCP 88 or CCP 97 with a grade of B or better; and knowledge of Windows is required; or instructor permission.

**CS 175 Event-Driven Programming
UWP C#****5 credits | REEL****Quarter(s): Sp**

Offers an introduction to designing and implementing Windows applications using C#. Covers concepts involving event-driven programming, graphical user interface design, and algorithm implementation are covered.

Prerequisites: CS 170 with a grade of C or better, or instructor permission

**CS 208 Introduction to Management
Information Systems****5 credits****Quarter(s): W**

Introduction to the principles, roles, and application of Management Information Systems (MIS) in business. Investigations into MIS include hands-on lab experiences and case studies.

Prerequisite: BUS& 101, ENGL& 101, or instructor permission. CS 110 recommended.

CS 270 Data Structures I**5 credits | NSCI, ELEC****Quarter(s): F**

Offers a detailed study of structured and object-oriented programming, including algorithms, searching and sorting, and data structures using the programming language C++.

Prerequisite: CS 170 and MATH 98 (or CCP 98 with a grade of B or better), or higher, with a grade of C or better, or instructor permission.

CS 275 Object-Oriented Programming**5 credits | REEL****Quarter(s): W**

Offers an introduction to the object-oriented programming paradigm using Java. Various object-oriented programming concepts will be discussed. Object-oriented programs will be developed and implemented.

Prerequisite: CS 170 with a grade of C or better, or instructor permission.

CS 280 Advanced Data Structures**5 credits | REEL****Quarter(s): Sp**

Offers a detailed study of advanced data structures, including the analysis of algorithms and object-oriented programming using the programming language C++.

Prerequisites: CS 270 and MATH& 141 (was MATH 112), both with a grade of C or better, or instructor's permission.

CS 285 Programming Tools**5 credits | REEL****Quarter(s): Sp**

Discusses programming techniques using C and C++ including debugging tools, scripting languages, UNIX programming tools, and familiarity with Unix/Linux system programming. Lab hours are required for this course.

Prerequisite: CS 270 with a grade of C or better, or instructor permission.

**CS 288 Cooperative Work Experience
1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

**CS 299 Independent Study
1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisites: By instructor permission only.

Criminal Justice (CJ)

CJ& 101 Introduction to Criminal Justice**5 credits | SOCS****Quarter(s): F, W, Sp**

Introduces and provides an overview of the various agencies involved in the administration of criminal justice, including local, state, and federal agencies as well as a history of police and corrections. Students will study how our criminal justice system evolved and how it functions, examined from the perspective of the Constitution through the criminalization process of investigation, arrest, trial, and post-trial procedures. (Formerly known as ADMJ 186)

Prerequisite: None

**CJ& 105 Introduction to Corrections
5 credits | SOCS****Quarter(s): F**

Surveys the historical context, philosophical concepts, and major theories that have shaped corrections in the United States. Discusses sentencing options, correctional approaches and programs, the role of corrections in the larger criminal justice system, and contemporary correctional issues. Explores the effects of the corrections system on the individual, families, and society.

Prerequisite: ENGL& 101 or instructor permission

**CJ& 106 Juvenile Justice
5 credits****Quarter(s): Sp**

Covers the history and philosophy of juvenile justice in America and the impact of present societal and legal reforms on the juvenile justice system. Presents the various theories that support the creation, development, and continuance of juvenile justice systems, practices, and procedures in the United States.

Prerequisites: ENGL& 101 or higher, or instructor permission

CJ& 110 Criminal Law**5 credits | SOCS****Quarter(s): F**

Introduces substantive criminal law including basic principles of criminal liability in crimes against persons and property, constitutional basics as applied to criminal laws, defenses and accomplice liability. Elements of specific crimes as seen within criminal statutes and basic criminal procedure illustrated in the legal system are covered as well as analysis of court decisions interpreting statutes. The sociological basis for changes in criminal law are also considered.

Prerequisites: ENGL& 101 with a grade of C or higher or instructor permission.

CJ 104 Introduction to Policing**5 credits | SOCS****Quarter(s): Sp**

Surveys and examines the role of policing in American society. Theories, philosophy and practices are covered from historical and contemporary perspectives. Identifies challenges in law enforcement including the political, social, organizational, and legal environments where the police perform their roles.

Prerequisites: None Co-requisites: None

CJ 154 The American Legal System**5 credits****Quarter(s): W**

Introduces students to the history and evolution of the federal and state constitutional basis of law, how the court systems within the United States work separately and together, and how the various components and occupations within our legal system function. Sociological reasons for the development of our legal system are also explored.

Prerequisites: ENGL& 101 with a grade of C or higher or instructor permission.

CJ 180 Report Writing for Law Enforcement**5 credits | ELEC****Quarter(s): W**

Covers the procedures of field note-taking, crime scene recording, preliminary investigation methods for writing law enforcement reports and fundamentals of police record systems. Prepares the student to write effective and concise reports, using observation, note-taking and excellent writing skills.

Prerequisites: ENGL& 101 with a grade of C or higher or instructor permission.

CJ 184 Administration of Justice**5 credits****Quarter(s): W**

Introduces students to the history, evolution, components and function of criminal procedure in the United States courts, from arrest through the appeals process, and touching on victim's rights. Gives students a perspective of the complexities and intricacies of criminal procedure and punishment in light of sociological norms and change, the U.S. Constitution, state and federal statutes, rules and practice.

Prerequisites: ENGL& 101 with a grade of C or higher or instructor permission.

CJ 187 Crisis Intervention for Professionals**3 credits**

Provides a basic multidisciplinary understanding of what a mental disorder/illness is and how to help a person experiencing a mental health crisis. De-escalation and communication techniques specific to professions such as education, medicine, and law enforcement - anyone who may encounter persons experiencing a mental health crisis - will be the focus of lecture and group discussions.

Prerequisites: None

CJ 260 Physical Evidence and Criminalistics**5 credits | ELEC****Quarter(s): Sp**

Studies collection and preservation of physical evidence, scientific aids, modus operandi, and crime scene search and includes examination of physical evidence and evaluation of findings in terms of legal questions involved. Surveys problems relating to homicide, drugs, arson, and burglary.

Prerequisite: CJ 180 Report Writing for Law Enforcement

CJ 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

CJ 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Dance (DANCE)**DANCE 100 Introduction to Dance****2 credits | HUM, PERF**

Students will study concepts and practice the fundamentals of ballet, modern, and jazz dance. Students will participate in some physical exercise including a full body warm-up to begin class. Prior dance experience is not necessary. Students will learn short dance combinations involving body awareness, mental and physical discipline, balance, body toning, strength and flexibility as well as rhythmic awareness. Lab hours are required for this course.

Prerequisite: None

DANCE 105 Introduction to Jazz Dance**2 credits | HUM, PERF**

Studies the concepts relevant to movement and practices the fundamentals of jazz dance. Students will learn short jazz dance combinations involving body awareness, mental and physical discipline, balance, body toning, strength, flexibility, and rhythmic awareness. Prior dance experience is not necessary. Lab hours are required for this course.

Prerequisite: None.

DANCE 110 Introduction to Tap Dance
2 credits | HUM, PERF

Introduces fundamentals of tap dance. Students will learn short dance combinations involving body awareness, mental and physical discipline, balance, strength and rhythmic awareness. Students will participate in physical exercise while dancing. Classes incorporate a full body warm-up including stretching, balance, and leg strengthening exercises providing a moderate cardio exercise. Prior dance experience is not necessary. Lab hours are required for this course.
 Prerequisite: None

DANCE 151 Show Dance I
1.50 credits | HUM, PERF

Covers the fundamental techniques and principles of integrating voice, music and dance into a performance show choir. Students will sing (from memory) and perform beginner/intermediate choreography of music from a variety of styles ranging from Broadway and Jazz to Contemporary music. Ensembles perform a minimum of 1 concert per quarter, and all performances are mandatory. This course is designed for Music Majors, Dance Majors and Theatre Majors planning to transfer and complete a four-year degree in music, dance or theatre; or for those students desiring to participate in a song and dance performance choir. Lab hours are required for this course.
 Prerequisites: There are no prerequisites for this course; students can step into the sequence at any time. Instructor permission required.

DANCE 152 Show Dance II
1.50 credits | HUM, PERF

Demonstrates the fundamental techniques and principles of integrating voice, music and dance into a performance show choir. Students will sing (from memory) and perform beginner/intermediate choreography of music from a variety of styles ranging from Broadway and Jazz to Contemporary music. Ensembles perform a minimum of 1 concert per quarter, and all performances are mandatory. This course can be taken up to 2 times. This course is designed for Music Majors, Dance Majors and Theatre Majors planning to transfer and complete a four-year degree in music, dance or theatre; or for those students desiring to participate in a song and dance performance choir. Lab hours are required for this course.
 Prerequisites: There are no prerequisites for this course; students can step into the sequence at any time. Instructor permission required.

DANCE 153 Show Dance III**1.50 credits | HUM, PERF**

Explores the fundamental techniques and principles of integrating voice, music and dance into a performance show choir. Students will sing (from memory) and perform beginner/intermediate choreography of music from a variety of styles ranging from Broadway and Jazz to Contemporary music. Ensembles perform a minimum of 1 concert per quarter, and all performances are mandatory. This course can be taken up to 2 times. This course will transfer to any four-year institution as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: There are no prerequisites for this course; students can step into the sequence at any time. Instructor permission required.

DANCE 197 Rehearsal and Performance I**1-5 credits**

Provides experience for students who participate in dance performances and performing arts productions not associated with current enrollment in a dance course. This includes dancers, choreographers, designers, technicians, and support personnel. Students must successfully complete the rehearsal process through the final performance.

Prerequisite: Instructor permission.

DANCE 251 Show Dance IV**1.50 credits | HUM, PERF**

Distinguish the fundamental techniques and principles of integrating voice, music and dance into a performance show choir. Students will sing (from memory) and perform beginner/intermediate choreography of music from a variety of styles ranging from Broadway and Jazz to Contemporary music. Ensembles perform a minimum of 1 concert per quarter, and all performances are mandatory. This course can be taken up to 2 times. This course will transfer to any four-year institution as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: There are no prerequisites for this course; students can step into the sequence at any time. Instructor permission required.

DANCE 252 Show Dance V**1.50 credits | HUM, PERF**

Expands on the fundamental techniques and principles of integrating voice, music and dance into a performance show choir. Students will sing (from memory) and perform beginner/intermediate choreography of music from a variety of styles ranging from Broadway and Jazz to Contemporary music. Ensembles perform a minimum of 1 concert per quarter, and all performances are mandatory. This course can be taken up to 2 times. This course will transfer to any four-year institution as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: There are no prerequisites for this course; students can step into the sequence at any time. Instructor permission required.

DANCE 253 Show Dance VI**1.50 credits | HUM, PERF**

Further expand on the fundamental techniques and principles of integrating voice, music and dance into a performance show choir. Students will sing (from memory) and perform beginner/intermediate choreography of music from a variety of styles ranging from Broadway and Jazz to Contemporary music. Ensembles perform a minimum of 1 concert per quarter, and all performances are mandatory. This course can be taken up to 2 times. This course will transfer to any four-year institution as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: There are no prerequisites for this course; students can step into the sequence at any time. Instructor permission required.

DANCE 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

DANCE 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Diesel and Heavy Equipment Technology (DHET)

DHET 100 Essentials of Mechanics**5 credits | REEL****Quarter(s): F**

Develops beginning mechanical skills and knowledge essential to successful completion of the automotive and/or diesel technology program. Includes shop safety, fasteners, measurements, cutting tools, lifting, tool usage, shop orientation, manuals (including computer retrieval systems), bearings and seals, and special emphasis on preventative/predictive maintenance. This is an introductory course for beginning students of Automotive or Diesel Technology. Course can be waived if student has completed principles of technology and auto program in high school. Lab hours are required for this course.

Prerequisite: None

DHET 104 Electrical Systems**15 credits | REEL****Quarter(s): W**

Introduces the basics of electricity through the electrical schematic use and basic troubleshooting and repair. Emphasizes the measurement of volts, amperes, and ohms in various types of circuits using a digital multimeter. Covers application and testing of various circuit components such as switches, relays and circuit protection devices. Presents theory, diagnosis and repair of vehicle electrical systems, including batteries, starting systems, charging systems, instrumentation and warning devices, lighting systems, power accessories (e.g. power windows, power seats), computer operation and circuit analysis. Lab hours are required for this course.

Prerequisites: None

DHET 105 Vehicle Climate Control**5 credits | REEL****Quarter(s): S, Sp**

Introduces the theory of operation, design, diagnosis and repair of both manual and automatic heating, ventilation and air conditioning systems (HVAC) used in automobiles, trucks and heavy equipment. Emphasizes component identifications, performance testing, recovering, evacuation and recharging. Covers materials necessary to pass ASE (A7) test. Lab hours are required for this course.

Prerequisite: AMTC 104 or DHET 104 or Instructor Permission

DHET 114 Heavy Duty Brakes and Chassis**15 credits | REEL****Quarter(s): Sp**

Covers the theory and repair of air and hydraulic braking systems commonly found on trucks equipment, cranes and winches. Emphasis will be placed on truck S-cam braking systems. Also covered is the repair, maintenance and diagnosis of truck and equipment chassis and undercarriage. Lab hours are required for this course.

Prerequisites: None

DHET 141 Hydraulics I**4 credits | REEL****Quarter(s): F**

Presents the basic principles, operation, and maintenance of mobile hydraulic systems. Topics include component function, application, testing, and troubleshooting.

Prerequisites: None. Concurrent requirements: DHET 142 or instructor permission.

DHET 142 Hydraulics II**6 credits | REEL****Quarter(s): F**

Provides a more in-depth look at hydraulic pumps, valves, and actuators in mobile hydraulic systems. Emphasizes testing, diagnosis and the repair of hydraulic systems. Lab hours are required for this course.

Prerequisite: DHET 141 or MFG 140 or concurrent enrollment.

DHET 210 Diesel Engine Rebuild**15 credits | REEL****Quarter(s): W**

Presents the operation, maintenance, repair and overhaul of diesel engines used in heavy equipment. Lab hours are required for this course.

Prerequisites: None

DHET 215 Heavy Duty Engine Performance**15 credits | REEL****Quarter(s): F**

Studies factors and components that affect diesel engine performance, fuel economy, and exhaust emissions. Includes fuel system and valve train problem diagnosis, maintenance, repair, and adjustment. Lab hours are required for this course.

Prerequisite: DHET 104 or instructor permission.

DHET 220 Heavy Duty Power Trains**10 credits | REEL****Quarter(s): Sp**

Provides study of the principles of operation, maintenance, problem diagnosis, and repair of clutch systems, manual transmission, automatic transmission, power take-off, transfer cases, drive lines, differential assemblies and final drives used in trucks and heavy equipment. Lab hours are required for this course.

Prerequisite: None

DHET 228 Commercial Driving**4 credits | REEL****Quarter(s): S, F, W, Sp**

Prepares students for the Washington State Class A commercial driver's license exam.

Prerequisites: None

DHET 229 Commercial Truck Driving Operation**6 credits | REEL****Quarter(s): S, F, W, Sp**

Provides the required 120 hours of truck driving skill development to prepare students for the Washington State Class A commercial driver's license exam. Lab hours are required for this course.

Prerequisites: DHET 228. Student must have DOT physical and pass the DOT alcohol and substance abuse test. Student must have a commercial learner's permit.

DHET 230 Advanced Shop Practices**5 credits | REEL****Quarter(s): Sp**

Provides a review of key skills learned in previous Diesel program courses and will reinforce industry shop practices. Emphasis will be placed on time management and documentation.

Designed as a course for Diesel AAS students. Lab hours are required for this course.

Prerequisite: Completion of 60 DHET credits.

DHET 240 Fluid Power/Electrical Theory and Design**5 credits | REEL****Quarter(s): Sp**

Explores the theory and design principles of fluid power and electrical systems. Various mathematical formulas will be used to help students understand the how and why systems perform as they do. Students will be taken through the design process for a task of their choosing. This process will include force estimation and measurement, calculating component specifications and schematic drawing. Lab hours are required for this course.

Prerequisites: Math 078/079

DHET 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
 Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

DHET 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisites: By instructor permission only.

Drafting (DRFT)

DRFT 107 Technical Graphics**1-3 credits | REEL**

Involves students in the use of techniques and standard practices of technical graphics so that design ideas can be adequately communicated and produced. Includes free-hand sketching, use of drafting instruments, line work, lettering, orthogonal projections, pictorials, basic dimensioning, and an introduction to computer-aided design drafting. Lab hours are required for this course.

Prerequisite: None

DRFT 151 Introduction to Computer-Aided Drafting (CAD)**1-3 credits | REEL**

Introduces drafting operations as applied to computer aided drafting (CAD) and the commands and procedures used to create, edit, and plot two-dimensional CAD drawings. Drawing productivity, accuracy, and organizational techniques are emphasized in this course.

Assignments will be chosen from various drafting disciplines. Lab hours are required for this course.

Prerequisite: CS 110 or instructor permission

DRFT 210 Advanced Technical Graphics**1-3 credits | REEL**

Involves students in the use of techniques and standard practices of technical graphics towards the solution of technical design problems, and to communicate and produce design ideas. Includes dimensioning and tolerancing, production of working drawings, and advanced computer-aided design drawing. This course also introduces students to electronic, piping, and welding drawings. Lab hours are required for this course.

Prerequisite: DRFT 107 or ENGR& 121 (was ENGR 111).

DRFT 252 3-D Computer Aided Drafting

1-3 credits | REEL

Involves students in the use of parametric solid modeling towards design on three-dimensional part and assembly models. Includes creating part and assembly drawings from 3D models, modifications throughout the design process, and comparing the many parametric solid modeling software packages available. Lab hours are required for this course.

Prerequisite: DRFT 210

DRFT 260 Survey of Civil and Architectural Graphics

3 credits | REEL

A survey course that introduces the student in the use of the drafting standards used by Civil and Architectural disciplines. The concepts of these standards will include: structural graphics, map drafting, architectural drafting, and welding and piping drafting. Lab hours are required for this course.

Prerequisite: DRFT 107 or ENGR& 121 (was ENGR 111) or instructor permission.

DRFT 288 Cooperative Work Experience

1-15 credits

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

DRFT 299 Independent Study

1-10 credits

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Drama (DRMA)

DRMA& 101 Introduction to Theatre

5 credits | HUM

Quarter(s): F, W, Sp

Examines the nature and development of dramatic literature, theatre, and production elements. The roles of the various artists who create theater are explored, with an emphasis on interpretation and production of plays. Attendance at productions is required. This course is designed for general college students and/or theater majors, is transferable, and fulfills the requirements of the AA-DTA Humanities distribution list.

Prerequisite: None.

DRMA 106 Introduction to Acting I

5 credits | HUM, PERF

A beginning acting course involving movement, voice production, improvisation, and scene work. Group work is used to allow each student to be comfortable in interactions with other people. Students are not required to be in the current Center Stage production. No prior acting is required. (Formerly known as DRAM 106)

Prerequisite: None

**DRMA 107 Introduction to Acting II
5 credits | HUM, PERF**

A beginning acting course involving movement, voice production, improvisation, and scene work. Group work is used to allow each student to be comfortable in interactions with other people. Students are not required to be in the current Center Stage production. No prior acting is required.
Prerequisite: None

**DRMA 108 Introduction to Acting III
5 credits | HUM, PERF**

A beginning acting course involving movement, voice production, improvisation, and scene work. Group work is used to allow each student to be comfortable in interactions with other people. Students are not required to be in the current Center Stage production. No prior acting is required.
Prerequisite: None

**DRMA 116 Stage Crafts I
5 credits**

Teaches technical areas involved in producing a play through lecture and application of skills learned in selected technical areas from design to construction to production. Practical experience is gained in sets, costumes, lights, and by serving on stage crew for the current Center Stage production.
Prerequisite: None

**DRMA 117 Stage Crafts II
5 credits**

Teaches technical areas involved in producing a play through lecture and application of skills learned in selected technical areas from design to construction to production. Practical experience is gained in sets, costumes, lights, and by serving on stage crew for the current Center Stage production.
Prerequisite: None

**DRMA 118 Stage Crafts III
5 credits**

Teaches technical areas involved in producing a play through lecture and application of skills learned in selected technical areas from design to construction to production. Practical experience is gained in sets, costumes, lights, and by serving on stage crew for the current Center Stage production. Each course (DRMA 116, 117, 118) may be taken separately or in sequence; together they complete a basic study of technical theatre. Center Stage production for the quarter is used to apply technical aspects of stagecrafts to the play. Serving on the stage crew for the production is required.
Prerequisite: None

**DRMA 119 Introduction to Theatre
Design and Technology
5 credits**

Introduces set, costume and light design, using the current production as the basis for exploring technology in the theatre. Current theatre practices using computer programs for each discipline in both analog and digital format are applied. Included are computer assisted set, and light and sound production in both analog and digital formats. Computer programs include Vector works, Adobe Soundbooth, Sketch Up Pro, and Show Cue System. Practical experience is gained through application of principles learned by using theatre facilities of Center Stage and the Wollenberg Concert Hall and by serving on stage crew for the current Center Stage production.
Prerequisite: None

DRMA 147 Audition Techniques
2 credits

Introduces audition techniques through preparation, performance and workshops of monologues and musical theatre repertoire. Focuses on interpretation, stage presence, performance etiquette and repertoire selection. Additionally, this course will cultivate successful audition techniques and create a market audition package including, headshot, resume, and portfolio.

Prerequisite: None

DRMA 196 Rehearsal and Performance I

1-5 credits

Credit and experience for students who participate in the Center Stage production for the quarter. This includes actors, directors, designers, technicians, and support personnel. Students must successfully complete the rehearsal process through the final performance.

Prerequisite: None

DRMA 197 Rehearsal and Performance II

1-5 credits

Credit and experience for students who participate in the Center Stage production for the quarter. This includes actors, directors, designers, technicians, and support personnel. Students must successfully complete the rehearsal process through the final performance.

Prerequisite: None

DRMA 198 Rehearsal and Performance III

1-5 credits

Credit and experience for students who participate in the Center Stage production for the quarter. This includes actors, directors, designers, technicians, and support personnel. Students must successfully complete the rehearsal process through the final performance.

Prerequisite: None

DRMA 206 Acting I

5 credits

Emphasizes development and application of acting concepts used in creating a role. Includes voice, physical movement, audition techniques, styles and periods of acting. Designed for the advanced acting student. Students are not required to be in the current Center Stage production.

Prerequisite: None

DRMA 207 Acting II

5 credits

Emphasizes development and application of acting concepts used in creating a role. Includes voice, physical movement, audition techniques, styles and periods of acting. Designed for the advanced acting student. Students are not required to be in the current Center Stage production.

Prerequisite: None

DRMA 208 Acting III

5 credits

Emphasizes development and application of acting concepts used in creating a role. Includes voice, physical movement, audition techniques, styles and periods of acting. Designed for the advanced acting student. Students are not required to be in the current Center Stage production.

Prerequisite: None

DRMA 210 Masks**5 credits**

Introduces masks as a component of actor training for use on the stage and for understanding various cultures throughout the world. The mask helps develop the ability to concentrate, diminish self-consciousness, center the body, expand the body awareness, and develop outward expressions through physicalization, improvisation and scene work.

Prerequisite: None

DRMA 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

DRMA 296 Rehearsal and Performance IV**1-5 credits**

Credit and experience for students who participate in the Center Stage production for the quarter. This includes actors, directors, designers, technicians, and support personnel. Students must successfully complete the rehearsal process through the final performance. Prerequisite: None

DRMA 297 Rehearsal and Performance V**1-5 credits**

Credit and experience for students who participate in the Center Stage production for the quarter. This includes actors, directors, designers, technicians, and support personnel. Students must successfully complete the rehearsal process through the final performance. Prerequisite: None.

DRMA 298 Rehearsal and Performance VI**1-5 credits**

Credit and experience for students who participate in the Center Stage production for the quarter. This includes actors, directors, designers, technicians, and support personnel. Students must successfully complete the rehearsal process through the final performance. Prerequisite: None

DRMA 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisites: By instructor permission only.

Early Childhood Education (ECED)

ECED& 100 Child Care Basics **3 credits**

Covers licensing requirements for early learning lead teachers and family home child care providers, STARS 30 hour basics course recognized in the MERIT system. Topics include child growth/development, cultural responsiveness, community resources, guidance, health/safety/nutrition and professional practices.

Prerequisites: None

ECED& 105 Introduction to Early Childhood Education **5 credits**

Quarter(s): W, Sp

Explores the foundations of early childhood education. Examine theories defining the field, issues, trends, best practices, and program models. Observe children, professionals and programs in action.

Prerequisites: None Concurrent requirements: None

ECED& 107 Health/Safety/Nutrition **5 credits | REEL**

Quarter(s): F, Sp

Introduces implementation of equitable health, safety and nutrition standards for the growing child in group care. Focus on federal Child Care Block Grant funding (CCDF) requirements, WA state licensing and Head Start Performance standards. Develop skills necessary to keep children healthy & safe, report abuse & neglect, and connect families to community resources. Students will also obtain First Aid/CPR & Bloodborne Pathogen certification.

Prerequisites: None Concurrent requirements: None

ECED& 120 Practicum-Nurturing Relationships **2 credits**

Quarter(s): F, W

Presents the fundamentals of how to establish nurturing, supportive relationships with all children and professional peers in an early learning setting. Focus on children's health & safety, promoting growth & development, and creating a culturally responsive environment.

Prerequisites: None Concurrent requirements: None

ECED& 132 Infants/Toddlers Care **3 credits | REEL**

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 retentive care.

Prerequisites: None Concurrent requirements: None

ECED& 134 Family Child Care**3 credits | REEL**

Explores how to manage a family childcare program. Topics include: licensing requirements, record-keeping, relationship building, communication strategies, guiding behavior, and promoting growth and development.

Prerequisites: None
Concurrent requirements: None

ECED& 139 Administration of ECE**3 credits | REEL**

Covers administrative skills required to develop, operate, manage and improve early childhood education and care programs. Discusses basic business management skills. Explores and supports for meeting Washington State licensing and professional NAEYC standards.

Prerequisites: None
Concurrent requirements: None

ECED& 160 Curriculum Development**5 credits | REEL****Quarter(s): F**

Investigates learning theory, program planning, tools and methods for curriculum development promoting language, fine/gross motor, social-emotional, cognitive and creative skills and growth in children birth through age 8 utilizing developmentally appropriate and culturally responsive practice.

Prerequisites: None
Concurrent requirements: None

ECED& 170 Learning Environments**3 credits | REEL****Quarter(s): Sp**

Focuses on the adult's role in designing, evaluating, and improving indoor and outdoor environments that ensure quality learning, nurturing experiences, and optimize the development of young children.

Prerequisite: None
Concurrent requirements: None

ECED& 180 Lang/ Literacy Develop**3 credits****Quarter(s): W**

Examines teaching strategies for language acquisition and literacy skill development at each developmental stage (birth-age 8) through the four interrelated areas of speaking, listening, writing, and reading.

Prerequisites: None

ECED& 190 Observation/Assessment**3 credits | REEL****Quarter(s): F, Sp**

Covers collecting and recording observation and assessment data in order to plan for and support the child, the family, the group, and the community. Practice reflection techniques, summarizing conclusions, and communicating findings.

Prerequisites: None
Concurrent requirements: None

ECED 116 Guiding Behavior of Young Children**1 credit**

Focuses on strengthening relationship-based care as an essential component of positive guidance. Participants will identify their own personal view or 'image' of the child and correlates this image with beliefs about guidance. Strategies to encourage caregivers to bond with children in their care will be introduced.

Prerequisite: None

ECED 117 Building Bridges: The Encouraging Classroom**1 credit**

Focuses on using the environment to support children's positive behavior, developmentally appropriate guidance practices, guidance versus punishment, and involving families to support children's social and emotional growth.

Prerequisite: None

ECED 118 Building Bridges: Positive Guidance**1 credit**

Focuses on positive communication and direct guidance techniques to support children's social/emotional development and strategies for specific challenging behaviors.

Prerequisite: None

ECED 136 Building Bridges: Infant/Toddler Social & Emotional Development**1 credit**

Provides the early care and education professionals will learn about the emerging language of the young child, fostering secure caregiver-child relationships and the importance of culturally responsive partnerships with families.

Prerequisite: None.

ECED 225 STEAM in Early Childhood**5 credits | REEL****Quarter(s): Sp**

Investigates the importance of STEAM (Science, Technology, Engineering, Art, and Math) in early childhood settings and curriculum. Students will explore methods for promoting scientific discovery and learning, integrating science and technology, the elements of art, and developing mathematical concepts in an early childhood setting. Effective strategies to incorporate STEAM into curriculum and everyday activities with young children will be studied.

Prerequisites: None

ECED 261 Practicum IV/Principles**3 credits | REEL****Quarter(s): F**

Students will study the guiding Principles of Early Childhood Education and will have the opportunity to gradually assume the role of a lead teacher with a group of young children. Students observe and plan activities under the guidance of a mentor teacher and will also attend agency staff meetings. This course requires 11 hours of lecture and 66 hours of clinical in an approved early childhood setting.

Prerequisites: ECED& 105, ECED& 107, ECED& 120, ECED& 190 and ENGL& 101

ECED 262 Practicum V/Practice**3 credits | REEL****Quarter(s): W**

Students will employ the guiding Practices of Early Childhood Education and will have the opportunity to assume the role of a lead teacher with a group of young children. Students observe and plan activities under the guidance of a mentor teacher and will also attend agency staff meetings. This course requires 11 hours of lecture and 66 hours of clinical in an approved early childhood setting.

Prerequisites: ECED 261

ECED 263 Practicum VI/**Professionalism****3 credits | REEL****Quarter(s): Sp**

Students will explore the Profession Code of Conduct as outlined by the National Association of Education of Young Children (NAEYC) and its application in the workplace. Students will have the opportunity to assume an in-depth role of a lead teacher with a group of young children. Students observe, assess and plan activities under the guidance of a mentor teacher and will also attend agency staff meetings. This course requires 11 hours of lecture and 66 hours of clinical in an approved early childhood setting.

Prerequisites: ECED 262

ECED 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

ECED 301 Practicum I**4 credits | REEL****Quarter(s): W**

Provides the first experience working in an educational setting with children and their families who are culturally, linguistically and ability diverse, under the guidance of a program-selected mentor teacher. Topics include reflective practice, developing a classroom community through an anti-bias approach, standards for professional teacher behavior as outlined by NAEYC, NAEYC Professional Code of Ethics and effective instructional strategies. Additional topics may be presented as needed. Requires 99 hours of field experience in an early care and education environment.

Prerequisites: None

ECED 302 Practicum II**4 credits | REEL****Quarter(s): Sp**

Continues the field experience in an early care and education setting with children and their families who are culturally, linguistically, and ability diverse, under the guidance of a program-selected mentor teacher. Topics include school to family connections and professional relationships. Additional topics may be presented as needed. Requires 99 hours of field experience in an early care and education environment.

Prerequisites: Completion of ECED 301 with a C or better

**ECED 401 Reflective Practice I/
Coaching & Mentoring**

1 credit | REEL

Quarter(s): F

Provides content to support and enhance ECED 411 Student Teaching I. Explore how to build professional relationships, use professional written and oral communication, adult learning styles in early care and education settings. Additional topics may be presented as needed. Taken concurrently with ECED 411.

Prerequisites: Completion of ECED 302 with a C or better Co-requisite: ECED 411

**ECED 402 Reflective Practice II/
Leadership**

1 credit | REEL

Quarter(s): W

Provides content to support and enhance ECED 412 Student Teaching II. Topics include the various leadership styles, and the importance of emotional intelligence, resilience, optimism, and reflective practice in early care and education settings. Additional topics may be presented as needed. Taken concurrently with ECED 412.

Prerequisites: Completion of ECED 401 & 411 with a C or better Co-requisite: ECED 412

**ECED 403 Reflective Practice III/
Advocacy**

1 credit | REEL

Quarter(s): Sp

Provides content to support and enhance ECED 413 Student Teaching III. Topics include professionalism, ethical practice, understanding of current governmental and community supports for children and families, and current issues that impact children and families. Students will develop an action plan to advocate in response to identified needs. Additional topics may be presented as needed. Taken concurrently with ECED 413. Prerequisites: Completion of ECED 402 & 412 with a C or better Co-requisite: ECED 413

ECED 411 Student Teaching I

5 credits | REEL

Quarter(s): F

Advances the experience working in an early care and education setting with children and their families who are culturally, linguistically, and ability diverse under the guidance of a program-selected mentor teacher. Emphasizes, professional collaboration and positive guidance techniques. First of three student teaching experiences for the non-certificate option. Requires 165 hours in a pre-k through 3rd grade classroom. Taken concurrently with ECED 401.

Prerequisites: Completion of ECED 302 & 312 with a C or better Co-requisite: ECED 401

ECED 412 Student Teaching II**5 credits | REEL****Quarter(s): W**

Advances the student teaching experience to autonomous student teaching in an educational setting with children and their families who are culturally, linguistically, and ability diverse, under the guidance of a program-selected mentor teacher. Emphasizes child observation, documentation and assessment in an early care and education setting. Second of three student teaching experience courses for the non-certificate option. Requires 165 hours in a pre-k through 3rd grade classroom. Taken concurrently with ECED 402.

Prerequisites: Completion of ECED 401 & 411 with a C or better Co-requisite: ECED 402

ECED 413 Student Teaching III**5 credits | REEL****Quarter(s): Sp**

Culminates the student teaching experience with autonomous student teaching in an early care and education setting with children and their families who are culturally, linguistically, and ability diverse under the guidance of a program-selected teacher. Emphasizes professionalism, and issues and trends in early care and education. Third of three student teaching experience courses for the non-certificate option. Requires 165 hours in a pre-k through 3rd grade classroom. Taken concurrently with EDUC 403.

Prerequisites: Completion of ECED 402 & 412 with a C or better Co-requisite: ECED 403

ECED 439 Issues and Trends in Early Childhood Education**5 credits | REEL****Quarter(s): W**

Explores current issues and interests in the field of early childhood. Topics may include early childhood perspectives on contemporary issues and deeper investigation of topics covered in previous courses, such as adverse childhood experiences (ACES), health care, war and political instability, poverty, geographic displacement, access to education and additional current issues. Prerequisites: None

Earth Science (ERSI)**ERSI 104 Introduction to Earth Sciences****5 credits | NSL****Quarter(s): F**

Provides a comprehensive picture of Earth and its unique place in the universe by examining major concepts from geology, oceanography, meteorology, and astronomy. Topics include Earth-Sun relationships, plate tectonics, rock cycle, evolution of stars, composition and structure of atmosphere, hydrosphere, and lithosphere, characteristics of oceans, solar systems, and stars. Lab hours are required for this course.

Prerequisite: None

ERSI 105 Earth Systems**5 credits | NSL****Quarter(s): F, W, Sp**

Presents a holistic view of Earth (our environments) as a system with emphasis on understanding the relationships of humans, atmosphere, hydrosphere, solid Earth, and biosphere. Major concepts are drawn from astronomy, meteorology, oceanography, geography, geology, biology, and ecology. Human's part, effects, and relationships within the global ecosystem and Earth Systems are analyzed, as well as our dependence and interconnections with natural resources. Includes lab. Lab hours are required for this course.
Prerequisite: None

ERSI 109 Energy and Our Planet: Earth Sciences**5 credits | NSL**

Earth science is an explanation of the earth system and the energy that powers its subsystems. Concepts are from astronomy, meteorology, oceanography, geology, physical geography and ecology. Students will gain an understanding of the natural world and science, as well as develop skills to apply and teach how scientific principles apply to everyday life. Intended primarily for elementary education and early childhood education majors. Part of a three quarter sequence; students are not required to take entire sequence. Includes lab. Lab hours are required for this course.
Prerequisite: None.

ERSI 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

ERSI 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.
Prerequisites: By instructor permission only.

Economics (ECON)

ECON& 201 Micro Economics**5 credits | SOCS****Quarter(s): F, W, Sp**

Introduces the characteristics of a market economy, focusing on price and output determination in individual product and resource markets, consumer behavior, the behavior of the firm, market structures, and comparative advantage. Prerequisite: MATH 88 or CCP 88 or BUS 104 and ENGL& 101 or BUS 119.

ECON& 202 Macro Economics**5 credits | SOCS****Quarter(s): F, W, Sp**

Analyzes the aggregate economy focusing on: national income accounting, inflation, business cycle theory, unemployment, growth, money and banking, fiscal and monetary policies, international trade, and finance.

Prerequisite: ECON& 201 with a grade of C or better.

ECON 105 Introduction to Economics**5 credits | SOCS****Quarter(s): F, W, Sp**

Analyzes basic microeconomic and macroeconomic principles, focusing on the market and price system, theory of the firm, consumer behavior, inflation, unemployment, total output, money and banking, the role of government, and international trade.

Prerequisites: None.

ECON 288 Cooperative Work**Experience****1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

ECON 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

ECON 445 Healthcare Economics**5 credits | REEL****Quarter(s): S, Sp**

Introduces macro and microeconomics in the context of US health care markets. Examines healthcare supply and demand, as well as cost versus benefit related to market and government approaches to healthcare issues. Considers the impact of the current US healthcare payer model on access, equity, quality, and affordability in comparison to other types of payer models.

Prerequisite: Admission to the RN to BSN program

Education (EDUC)

EDUC& 101 Paraeducator Basics**3 credits | REEL****Quarter(s): F, Sp**

Introduces the roles and responsibilities of the Paraeducator in the K-12 educational system. Explores techniques supporting instruction, professional and ethical practices, positive and safe learning environments, effective communication and teamwork.

Prerequisites: None
Concurrent requirements: None

EDUC& 115 Child Development**5 credits | SOCS****Quarter(s): F, W, Sp**

Builds the foundation for explaining how children develop in all domains, conception through early adolescence. Explores various developmental theories, methods for documenting growth, and impact of brain development. Topics addressed include stress, trauma, culture, race, gender identity, socioeconomic status, family status, language, and health issues.

Prerequisites: None
 Concurrent requirements: None

EDUC& 130 Guiding Behavior**3 credits | REEL****Quarter(s): F, Sp**

Examines the principles and theories promoting social competence in young children and creating safe learning environments. Develops skills promoting effective interactions, providing positive individual guidance, and enhancing group experiences.

Prerequisite: None

EDUC& 136 School Age Care**3 credits | REEL**

Discusses the provision of developmentally appropriate and culturally relevant activities/care for children ages 5-12 in a variety of settings. Topics include: implementation of curriculum, preparation of environments, building relationships, guiding cognitive and social emotional development, and community outreach.

Prerequisites: None
 Concurrent requirements: None

EDUC& 150 Child/Family/Community**3 credits****Quarter(s): S, F, W, Sp**

Discusses the integration of the family and community contexts 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.

Prerequisites: None
 Concurrent requirements: None

EDUC& 203 Exceptional Child**3 credits | REEL**

Provides an overview of programs for young children with special needs, including current issues and trends, the identification and assessment process, the IEP/IFSP process, and a look at some intervention and instructional strategies for working with young children with special needs.

Prerequisite: None

EDUC& 204 Inclusive Education: Birth through 21 Focus**5 credits | REEL****Quarter(s): S, W**

Introduces the recognition and identification of exceptionality in children from birth through high school. Includes policies and regulations concerning state and federal provisions of special education and related services, as well as adaptations for serving students with special needs in general education classrooms.

Prerequisite: None

EDUC& 205 Introduction to Education w/Field Experience: DIV**5 credits | DIV, ELEC****Quarter(s): F, W, Sp**

Introduces the field of education. Integrates readings, lectures, discussions, written assignments, student presentations, guest speakers, and participation in actual elementary classrooms to provide students with a broad survey of the K-12 educational system. Addresses the multicultural and diverse experiences of students in the educational setting.

Prerequisites: None
 Concurrent requirements: None

EDUC 191 Field Experience I**5 credits | REEL****Quarter(s): W**

Provides supervised field experience in a pre-K-12 setting, working alongside a teacher/paraeducator, observing, and demonstrating best practices. Incorporates seminar sessions and reflection to link field experiences with WA State Paraeducator Basic Competencies.

Prerequisites: None

EDUC 230 Social Skill Development & Trauma Informed Teaching**5 credits | REEL****Quarter(s): F**

Examines the principles and theories promoting social and emotional competencies and trauma-informed instruction. Develops strategies to support instruction, promote pro-social behavior and create a safe environment for collaborative work. The focus will be on the Social Emotional Learning Standards (SEL) identified by OSPI. Students will learn how to apply these standards in classroom management, and culturally responsive teaching and instruction.

Prerequisite: None

EDUC 240 Diversity in Education (Pre K-12 Focus)**5 credits****Quarter(s): Sp**

Explores diversity and social justice issues influencing educational settings. Examines in depth the historical and current impact of children's, teachers', and families' cultural, social and political context in schools.

Prerequisite: None

EDUC 246 Linguistically Diverse Education**3 credits | REEL****Quarter(s): F**

Focuses on effectively meeting the learning needs of children whose first language is not English. Explores ways to collaborate with family and other professionals to meet the needs of Multilingual learners.

Prerequisites: None

EDUC 291 Field Experience II**5 credits | REEL****Quarter(s): Sp**

Provides additional supervised field experience in a pre-K-12 setting, working alongside a teacher/paraeducator, observing, and demonstrating best practices. Incorporates seminar sessions and reflection to link field experiences with WA State Paraeducator Competencies including ELL and Special Education.

Prerequisites: EDUC 191 and EDUC& 204 (or concurrent)

EDUC 299 Independent Study**1-10 credits****Quarter(s): Sp**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

EDUC 300 Foundations of Teacher Education**5 credits | REEL****Quarter(s): S, F**

Provides an in-depth, holistic understanding of the teacher's role and function in educational settings P-8th grade; characteristics of effective teachers; professional dispositions; reflective practice; creating successful learning environments; preparation for professional competencies and certification; Social-Emotional Learning, ACE's, Issues of Abuse, and the Field Experience process.

Prerequisites: None

EDUC 301 Practicum I**4 credits | REEL****Quarter(s): W**

Provides the first field experience for the certificate option in an educational setting with students and their families who are culturally and ability diverse, English Language Learners and Multilingual Learners, under the guidance of a program-selected certificated mentor teacher. Topics include identifying learning targets, reflective practice, state standards, differentiation, and effective instructional strategies. Additional topics may be presented as needed. Requires 99 hours of field experience in a pre-k through 8th grade classroom.

Prerequisites: EDUC 300 with a C or better

EDUC 302 Practicum II**4 credits | REEL****Quarter(s): W**

Continues the field experience working in an educational setting with students and families who are culturally and ability diverse, Multilingual Learners, under the guidance of a program-selected certificated mentor teacher. Topics include building and maintaining collaborative professional relationships, classroom management strategies, and instructional strategies. Requires 99 hours of field experience in a pre-k through 8th grade classroom.

Prerequisites: Completion of EDUC 301 with a C or better

**EDUC 319 Anti-Bias Education: DIV
5 credits | DIV, SOCS****Quarter(s): S, F**

Examines equity issues in education. Presents strategies to apply the principles of anti-bias education to instruction. Explores how embedded bias can impact identity development. Assists in deconstruction of one's biases and reflection on biases present in the communities of practice and societal systems. Examines the characteristics of culturally and linguistically relevant teachers. Provides opportunities for peer and instructor coaching to improve responsiveness to cultural and ability diversity and Multilingual Learners. Discusses culturally relevant pedagogy and its importance to the transmitting of culture from generation to generation. Prerequisites: None

**EDUC 320 Language Arts for
Teachers****5 credits | REEL****Quarter(s): F, W**

Focuses on applying Washington State's English Language Arts Common Core Standards and Early Learning Guidelines P-3 through 8th grade. Continues application of the use of data to set goals, individualize instruction and group students according to common reading, writing, speaking, and listening goals. Candidates will design lesson plans, deliver instruction, assess student progress, and use technology to support instruction to support students who are culturally and ability diverse, English Language Learners, and Multilingual learners. Additionally, strategies in management of student documents and records are explored. Prerequisites: None

**EDUC 325 Intro to Special Education
5 credits****Quarter(s): W**

Provides an overview of special education and the characteristics and needs of children exceptional learners. Reviews the historical roots of special education, provides perspective into special education with general education, and discusses specific types of exceptionalities. Covers the impact of exceptional learners on families, schools and communities. Prerequisites: EDUC& 115 Concurrent requirements: None

**EDUC 330 Math Methods
5 credits****Quarter(s): Sp**

Introduces the initial competencies of the Washington State's Mathematics Common Core Standards and Early Learning Guidelines for P-3 through 8th grade students. Presents the use of data to set goals, individualize instruction and group students according to Common Core Mathematics Standards and Early Learning Guidelines. Covers designing lesson plans, delivering instruction, and assessing student progress at an initial level of competency. Introduces technologies to support instruction and manage individual student documents and instructional records. Prerequisites: College level math Concurrent requirements: None

EDUC 335 Professionalism, Collaboration & Classroom Leadership

5 credits | REEL

Quarter(s): W

Develops skills needed to effectively collaborate with others including school personnel, community agencies, and families to support students who are culturally and ability diverse, and Multilingual learners. Covers the importance of professional development in growing and improving knowledge and skills. Consider the meaning of being a member of a community of professionals, working with others to improve schools, communities, and the teaching profession. Explore how working collectively with diverse students, families, and other stakeholders to solve persistent problems of practice in education can lead to sustainable change in education. Supervision of assistants and paraprofessionals will be addressed. Reviews and explores classroom organization, management styles and philosophies. Assists in the development of a repertoire of skills to support success for every member of the classroom.

Prerequisites: None

EDUC 340 Concepts of Motor Skills

1 credit | REEL

Quarter(s): W

Provides an overview of the pedagogical competencies which deliver developmentally appropriate physical activities to children in grades Pre-K through 8th grade. Explores the principles of exercise science and the impact on health, self-confidence and self-worth. Provides a context to teach and assess K-8 students in physical education and health, based on state standards. Includes framework-based teaching strategies effective in helping K-8 students develop a variety of motor skills and abilities, recognize the importance of a healthy lifestyle, gain knowledge of human movement, understand growth and development, and learn the rules and strategies of games and sports. Explores instructional approaches for the integration of physical education and health with other content areas.

Prerequisites: None

EDUC 345 Curriculum Development & Design

5 credits | REEL

Quarter(s): F

Examines pedagogical approaches for teaching in educational settings. Emphasis will be given to the study of curriculum theory, design, practice, evaluation, and approaches to learning. Additional focus will be given to designing curricular experiences that are culturally responsive, equitable and that collaboratively engage students, families, and the community. Students will explore Washington State Common Core Standards and Washington State Early Learning & Developmental Guidelines.

Prerequisites: None

EDUC 350 Creative Arts Across the Curriculum**1 credit | REEL****Quarter(s): Sp**

Prepares students to integrate the visual arts across the Pre-K through 8th grade curriculum. Examines the elements of art and principles of design, art methods, lesson planning, and classroom management techniques, with particular emphasis on diverse students. Draw, paint, make prints, and create sculptures appropriate for the preschool and elementary classroom setting.

Prerequisites: None

EDUC 401 Reflective Practice I**1 credit | REEL****Quarter(s): F**

Provides content to support and enhance EDUC 411 Student Teaching I. Topics include professional dispositions, understanding and using the BAS-TE lesson plan template in accordance with the BAS-TE pedagogical assessment, and reflecting on instructional practices and mentor or site supervisor feedback. Taken concurrently with EDUC 411 Student Teaching I.

Prerequisites: None Co-requisite: EDUC 411

EDUC 402 Reflective Practice II**1 credit | REEL****Quarter(s): W**

Provides content to support and enhance EDUC 412 Field Experience II. Topics include professional communication, assessing instructional strategies and differentiating instruction. Taken concurrently with EDUC 412 Student Teaching II.

Prerequisites: Completion of EDUC 401 & 411 with a C or better Co-requisite: EDUC 412

EDUC 403 Reflective Practice III**1 credit | REEL****Quarter(s): Sp**

Provides content to support the third of three required student teaching experience courses Residency teacher certification. Emphasizes planning, professional responsibility, leadership and collaboration.

Prerequisite: Completion of EDUC 402 & 412 with a C or better Co-requisite: EDUC 413

EDUC 410 Inquiry Based Science for Teachers**4 credits****Quarter(s): F**

Examines how science and technology have affected individuals, cultures, and society. Presents the Washington State Next Generation Science Standards for P-3 through 8th grade. Discusses the use of technologies which support scientific inquiry and exploration.

Discusses assessment, planning, designing, delivering, and evaluating inquiry-based instruction in the sciences. Prerequisites: Natural Science with lab Concurrent requirements: None

EDUC 411 Student Teaching I**5 credits | REEL****Quarter(s): F**

Advances the field experience working in an educational setting with students who are culturally and ability diverse and Multilingual Learners, and their families under the guidance of a program-selected certificated teacher. Emphasizes instructional strategies and professional goal setting through reflective practice. The first of three required student teaching experience courses for the certificate option. Taken concurrently with EDUC 401 Reflective Practice I.

Prerequisites: Completion of EDUC 302 with a C or better. Co-requisite: EDUC 401

EDUC 412 Student Teaching II**5 credits | REEL****Quarter(s): W**

Advances the field experience to autonomous student teaching in an education setting with students and their families who are culturally, and ability diverse and Multilingual Learners and their families, under the guidance of a program selected certificated teacher. Emphasizes working as part of a team and assessing instructional effectiveness. The second of three required student teaching experience courses for the certificate option. Taken concurrently with EDUC 402 Reflective Practice II.

Prerequisites: EDUC 411 with a C or better Co-requisite: EDUC 402

EDUC 413 Student Teaching III**5 credits | REEL****Quarter(s): Sp**

Culminates the field experience with autonomous student teaching in an educational setting with students who are culturally, linguistically, and ability diverse and their families under the guidance of a program-selected certificated teacher. Emphasizes planning, professional responsibility, leadership and collaboration. Taken concurrently with EDUC 403 Reflective Practice III.

Prerequisites: Completion of EDUC 402 & 412 with a C or better Co-requisite: EDUC 403

EDUC 414 Guidance Techniques**5 credits | REEL****Quarter(s): W**

Provides a broad theoretical foundation of behavioral intervention strategies to support students with emotional, behavioral and social challenges. Explores student guidance techniques in depth. Examines strategies to support the development of a positive, supportive and culturally respectful classroom environment, including teaching social competencies that facilitate responsible student behavior. Presents theories and research related to approaches to classroom management and guidance. Addresses specific behavioral challenges and issues.

Prerequisites: None

EDUC 420 Social Studies for Teachers
4 credits | REEL**Quarter(s): Sp**

Presents methods, techniques, content, and materials for teaching the various grade levels with an emphasis on history, geography, economics, civics, political science, Washington State Social Studies Learning Standards, and social studies skills, through the use of inquiry, primary source documents, and integration of content within the elementary school curriculum. Explores the Since Time Immemorial curriculum.

Prerequisites: None

EDUC 429 Assessment**5 credits | REEL****Quarter(s): F**

Covers the selection, administration, scoring, and interpreting of formal and informal assessment tools for the purpose of setting goals and planning appropriate instruction. Refines skills and strategies for observing, documenting, and monitoring students from birth to grade eight who are culturally, and ability diverse and Multilingual Learners and their families.

Prerequisites: None

EDUC 430 Advanced Language and Literacy**4 credits | REEL****Quarter(s): Sp**

Refines teaching strategies for language acquisition and literacy skill development for children who are culturally, and ability diverse, and Multilingual Learners at each developmental stage (birth-eighth grade) through the four interrelated areas of speaking, listening, writing, and reading. Emphasizes strategies for teaching reading and how to support each stage of literacy development across genres and purposes. Addresses strategies for supporting families as they assist their children in learning language and literacy.

Prerequisites: None

EDUC 439 Portfolio and Professional Assessment**5 credits | REEL****Quarter(s): W**

Focuses on culturally responsive pedagogical assessment practices. Examines the pedagogical assessment requirements, use of technology, writing requirements, logistics, and evaluation. Covers specific academic language used for submission of the pedagogical assessment tool and knowledge of on-going teacher evaluation adopted by Washington State. Explores Teacher and Principal Evaluation and Growth Program (TPEP). Candidates will prepare the first phase of their pedagogical assessment for submission.

Prerequisites: None

Engineering (ENGR)

ENGR& 121 Engineering Graphics I 3 credits

Quarter(s): F, W, Sp

Involves students in communicating design ideas, developing visualization abilities, and analyzing engineering data through the use of graphical techniques and practices. Includes free-hand sketching, use of drafting instruments, line work, lettering, orthogonal projection, pictorials, basic dimensioning, and an introduction to computer-aided design modeling. Lab hours are required for this course.

Prerequisite: None

ENGR& 122 Engineering Graphics II 3 credits

Quarter(s): F, W, Sp

Involves students in the use of graphical techniques and practices applied towards engineering design and analysis. Includes dimensioning and tolerancing, descriptive geometry, production of working drawings, advanced computer-aided design modeling, and an introduction to parametric solid modeling. Lab hours are required for this course.

Prerequisite: ENGR& 121 (was ENGR 111) or instructor permission.

ENGR& 123 Engineering Graphics III 3 credits

Quarter(s): F, W, Sp

Involves students in the use of parametric solid modeling towards design on three-dimensional part and assembly models. Includes creating part and assembly drawings from 3D models, modifications throughout the design process, and comparing the many parametric solid modeling software packages available. Lab hours are required for this course.

Prerequisite: ENGR& 121 (was ENGR 111) and ENGR& 122 (was ENGR 112) or instructor permission.

ENGR& 204 Electrical Circuits 6 credits | ELEC

Quarter(s): Sp

Provides application of fundamental electrical principles in designing engineering solutions associated with linear circuit analysis, mathematical models of electrical components and circuits; sources, resistors, capacitors, inductors, operational amplifiers, and associated simple differential equations. Lab hours are required for this course.

Prerequisites: PHYS 222, MATH& 152, or higher except MATH 246, and computer literacy.

ENGR& 214 Statics 5 credits

Quarter(s): F

Engages student use of vector algebra and the sweeping power of a few fundamental principles to design real engineering solutions to problems involving discrete and distributed forces, resultants, equations of equilibrium, moments about points and lines, centroids, moments of inertia, and the principle of virtual work.

Prerequisites: MATH& 151 and either PHYS& 221 or ENGR 106.

ENGR& 215 Dynamics**5 credits****Quarter(s): W**

Engages student application of vector algebra and the sweeping power of a few fundamental principles to design real engineering solutions to problems involving translational and rotational motion associated with kinematics, kinetics, the impulse-momentum and work-energy principles, and related topics.

Prerequisites: ENGR& 214 (was ENGR 122), MATH& 152 (was MATH 152) and PHYS& 221, or instructor permission.

ENGR& 224 Thermodynamics**5 credits****Quarter(s): Sp**

Encourages student application of basic principles of macroscopic thermodynamics to design solutions to engineering problems involving energy transformations and state changes, the first and second principles of thermodynamics, macroscopic properties of substances, flow analysis, entropy, equations of state, power and refrigeration cycles, and thermodynamic relations. (Formerly known as ENGR 260)

Prerequisite: ENGR& 214 (was ENGR 122), PHYS& 221, and MATH& 152 or instructor permission.

ENGR& 225 Mechanics of Materials**5 credits****Quarter(s): Sp**

Engages students in application of fundamental principles and concepts of stress, strain and their relationships to design engineering solutions associated with axial loads, torsion and bending, combined stresses, properties of materials, columns, and repeated loadings.

Prerequisite: ENGR& 214 (was ENGR 122), concurrent enrollment in MATH& 152, and PHYS& 222 or instructor permission.

ENGR 106 Engineering Problems**5 credits | NSCI****Quarter(s): F**

Introduces engineering and the engineering professions. Emphasizes analysis of actual engineering problems. Concepts such as measurement theory, error analysis, dimensional analysis, metric units, systems of modeling, engineering design, and principles of elementary physics are explored. Lab hours are required for this course.

Prerequisite: C or better in MATH 098 or placement into MATH& 141

ENGR 205 Design of Logic Circuits**5 credits | ELEC****Quarter(s): F**

Covers the design, analysis, and implementation of combinational logic circuits. Introduces sequential logic circuits. Lab hours are required for this course.

Prerequisites: MATH& 141, or higher except MATH& 146 and MATH& 246

ENGR 206 Microprocessor Systems**5 credits | ELEC****Quarter(s): W**

Covers microprocessor/microcontroller system architecture, instruction sets, interfacing, assembly and C language programming. Lab hours are required for this course.

Prerequisites: CS 270, ENGR 205

ENGR 210 Environmental Physics of Energy**5 credits | NSCI**

Solicits student descriptions of energy production, patterns of use, and the challenges posed by dwindling energy resources using the language of physics: work, power, energy, heat, and the Conservation of Energy Principle. Students explore the physical/technological bases of current/proposed technologies, along with current scientific discussions of environmental effects such as global warming and radiation. Students cannot receive credit for both ENGR 210 and PHYS 210.

Prerequisite: Algebraic, writing, and presentation skills; a previous distribution science course (e.g. PHYS& 100) would be helpful.

ENGR 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

ENGR 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

English (ENGL)**ENGL& 101 English Composition I****5 credits****Quarter(s): S, F, W, Sp**

Part one of the composition sequence. Introduces first-year college writing skills including thesis discovery, development, support, organization, sentence mechanics, diction, style, formal academic documentation, and final editing to compose claim-driven essays. Writing assignments may include analysis, synthesis, and argument.

Prerequisites: College level reading and writing skills or completion of ENGL 099 (was ENGL 100) with a grade of C or better.

ENGL& 102 English Composition II**5 credits****Quarter(s): S, F, W, Sp**

Part two of the composition sequence. Develops first-year college writing skills to compose claim-driven writing, including a 10-12 page researched argument essay. Emphasizes inquiry and research; synthesis and analysis; argumentation and reasoning; integration and documentation of evidence; and sentence mechanics, diction and style.

Prerequisites: ENGL& 101 with a grade of C or better.

ENGL& 112 Intro to Fiction**5 credits | HUM****Quarter(s): F**

Increases understanding and appreciation of fiction through intensive reading and analysis of short stories.

Prerequisites: Eligible for ENGL 99 or instructor consent

ENGL& 235 Technical Writing**5 credits | HUM, ELEC****Quarter(s): W, Sp**

Introduces technical writing skills necessary to communicate effectively in academic and professional settings.

Topics covered include business correspondence, job application materials, proposals, reports, instructions, and presentations.

Emphasizes inquiry and research.

Prerequisite: ENGL& 101 with a grade of C or better.

ENGL& 244 American Literature I**5 credits | HUM****Quarter(s): W, Sp**

Presents the context for works of American literature and studies major works by its authors. Explores the major forms and movements in American literature.

Prerequisite: ENGL& 101 or instructor permission.

ENGL 104 Accelerated Review of Grammar/Punctuation**1-2 credits | REEL**

Develops knowledge of standard English grammar and punctuation for college and the workforce through individualized skill work with verbs, subjects, and modifiers. Emphasis is also placed on sentence structure, capitalization, and the following punctuation marks: the comma, apostrophe, semicolon, and quotation marks. Students develop the tools to spot and correct errors in their writing. (Formerly known as INDV 104.) Lab hours are required for this course.

Prerequisites: None

ENGL 105 Critical Reading and Writing Skills for College English**3 credits****Quarter(s): F, W, Sp**

Offers instruction and intensive practice in college-level reading, writing, and critical thinking skills to succeed in English 101. Provides support in strengthening skills and strategies for academic success in transfer-level courses.

Prerequisites: None Co-requisite: ENGL& 101

ENGL 106 Northwest Voices Creative Writing Workshop**2 credits | HUM****Quarter(s): F, W, Sp**

Provides exposure to regional writers and creative writing techniques. Students read and discuss the work of Northwest Voices authors, attend the Northwest Voices writing workshops, and revise and complete creative works inspired from that workshop.

Prerequisites: None

ENGL 108 Introduction to Literature
5 credits | HUM

Provides a broad introduction to various genres of literature, such as the novel, play, poem, short story, and non-fiction essay through extensive reading, discussion, and writing about literary works. Students will gain an appreciation for the diversity of literary offerings and strategies for interpreting them. The course prepares students for more advanced literature courses.

Prerequisite: ENGL 099 concurrent or passed.

ENGL 110 Industrial Communications
5 credits | ELEC

Quarter(s): S, F, Sp

Presents the fundamentals of job-related writing for industrial trades. Covers a variety of workplace documents, including job application materials, workplace correspondence, instructions, and report writing. Emphasizes professional communication skills.

Prerequisites: None

ENGL 140 Introduction to Women Writers: DIV

5 credits | DIV, ELEC, HUM

Quarter(s): F

Examines literature written by women over a broad span of time to understand how social forces relating to gender, class, and race shape(d) their writing. Genres to be read may include poetry, short stories, non-fiction essays, plays, and novels.

Prerequisite: ENGL 099 or college-level writing ability

ENGL 205 Film and Drama
Appreciation

5 credits | HUM

Focuses on how film and drama reflect and shape community attitudes. The course looks historically at the development of narrative and style; however, particular attention is paid to how visual images shape our perceptions, reflect biases, or challenge stereotypes imbedded in popular culture. Students watch and discuss plays and films to develop critical analysis skills for interpretation and evaluation. They read representative works from Asian, African, and native American authors and filmmakers.

Prerequisite: ENGL& 101 or instructor permission.

ENGL 215 Introduction to Film Studies
5 credits | HUM

Quarter(s): F

Examines the conventions and techniques of narrative cinema with some readings in film theory. Explores the development of narrative and style and how film reflects and shapes community attitudes. Studies watch and discuss select representative films to develop critical analysis skills for interpretation and evaluation.

Prerequisites: ENGL& 101 or instructor permission.

ENGL 221 Teaching and Tutoring Writing I**2-5 credits | HUM**

Provides instruction in writing center and composition theory, emphasizing theories on language and literacy acquisition, tutoring writing, and composition pedagogy (2+ credits). Includes hands-on practice tutoring writing in the LCC Learning Commons, paired with discussion and reflection (4+ credits). Introduces students to the practice of writing center research. Students enrolled for 4 or more hours must pass a background check.
Prerequisites: ENGL& 101

ENGL 222 Teaching and Tutoring Writing II**4-5 credits | HUM**

Deepens understanding of the concepts and skills from English 221. Applies concepts to a broader range of composition theory and tutoring experience. Prepares for a leadership role within a writing center environment by designing and implementing a lesson on tutoring writing. Continues writing center research skills.[Introduces academic authorship (5 credits only).] Students must pass a background check.
Prerequisites: ENGL 221

ENGL 231 Creative Writing**5 credits | HUM, ELEC****Quarter(s): S, F, W, Sp**

Provides an introduction to the writing of short fiction and poetry. Assignments explore techniques of writing and revising, examining the elements of stories and poems. Students critique each other's work and study the published work of other writers.
Prerequisites: None

ENGL 232 Creative Writing**5 credits | HUM, ELEC****Quarter(s): S, F, W, Sp**

Engages students in writing and revising short fiction and poetry. Assignments explore the elements of stories and poems but allow students to concentrate on one form or the other. Students critique each other's work and study the published work of other writers.
Prerequisite: None

ENGL 233 Creative Writing**5 credits | HUM, ELEC****Quarter(s): S, F, W, Sp**

Engages students in writing and revising short fiction and poetry. Students may choose to concentrate on stories or poems in individual projects. In class sessions, students critique each other's work and study the published work of other writers.
Prerequisite: None

ENGL 234 Creative Nonfiction: DIV**5 credits | HUM, DIV****Quarter(s): S, W**

Emphasizes the writing and revision of creative nonfiction, focusing on personal experience. Through workshop, students present their own work and respond to other writers' work. Students will study a variety of published work from nonfiction writers, with an intentional examination of diverse voices, to learn key elements of craft and obtain ideas for revision and implementation.
Prerequisite: None

**ENGL 245 Contemporary Literature:
DIV**

5 credits | DIV, HUM, ELEC

Quarter(s): F

Explores contemporary works of poetry, fiction, or nonfiction texts through analysis, interpretation, and evaluation. Emphasis placed on texts that represent or reflect multicultural experiences in the U.S. or global diasporas.

Prerequisite: ENGL& 101 with a minimum grade of C

**ENGL 246 Rainbow Readers: LGBTQ
Literature: DIV**

5 credits | HUM, DIV

Examines some of the major concepts of modern and contemporary queer culture through close readings of writers of the 20th Century Lesbian, Gay, Bisexual, Transgender and Queer community.

Prerequisites: ENGL& 101 or instructor permission.

**ENGL 251 English Literature I
(Pre-1800)**

5 credits | HUM

Surveys major authors from Beowulf, Chaucer, Shakespeare, Donne, Johnson, and Milton through 18th Century authors including Swift, Pope, and Fielding. Seminar-discussion format.

Prerequisite: ENGL& 101 or instructor permission.

ENGL 252 English Literature

5 credits | HUM

Surveys major authors from Blake and Wordsworth among other Romantic writers, Tennyson and Browning among other Victorian writers, and poets and prose writers of the 20th century, including Conrad, Yeats, Joyce, Lawrence, Eliot, Becket, and Auden. The course is operated in a seminar-discussion format.

Prerequisite: ENGL& 101 or instructor permission.

**ENGL 254 Understanding Fiction and
Poetry**

5 credits | HUM

Examines traditional and experimental fiction and poetry, presenting the short story and the poem as related literary forms. Students will gain an understanding of the elements of fiction and poetry, as well as the ways in which writers reflect or challenge prevalent societal values through literature. This experience provides an opportunity for students to demonstrate their progress in developing the knowledge, skills, attitudes and values contained in the course plan outcomes.

Prerequisite: ENGL& 101 or instructor permission.

ENGL 255 Science-Fiction Literature and Film**5 credits | HUM**

Examines science fiction as an important genre in literature and film. Explores historical and modern examples of science fiction, focusing on significant works in the history and development of the genre, such as H. G. Wells' *The Time Machine*, William Gibson's *Neuromancer*, and Kubrick's *2001: A Space Odyssey*. Considers science fiction's power to engage with challenging social and political issues, and explores how it both inspires and is inspired by science and technology. This course meets the Humanities requirement for transfer degrees and professional/technical degrees.

Prerequisites: ENGL& 101 or ENGL 108 or instructor permission.

ENGL 256 Special Topics in Literature**5 credits | HUM**

Focuses on special topics or genres of literature, identified each quarter. Students learn the literary depth of a specific genre or thematic topic while gaining an understanding of the different forms of literature. This experience provides transfer students an opportunity to demonstrate their progress in developing the knowledge, skills, attitudes and values.

Prerequisite: ENGL& 101 or instructor permission.

ENGL 270 Literature for Children**5 credits | ELEC, HUM****Quarter(s): F, W, Sp**

Offers a survey of the history of literature for children. Presents literary and visual elements useful for analyzing and selecting high quality literature as well as effective methods for engaging children with various types of texts across time and genre. Explores the challenges and importance of curating collection of literature with an emphasis on diverse representation and critical consideration of controversial issues.

Prerequisite: None

ENGL 280 Multicultural Literature: DIV**5 credits | DIV, HUM, ELEC****Quarter(s): Sp**

Provides students with an introduction to multicultural literature. Emphasis is placed on increasing awareness and understanding of the values, beliefs, and experiences of people from a variety of cultures in the United States and global diasporas.

Prerequisite: ENGL& 101 with a minimum grade of C

ENGL 96 Reading Workshop I**2 credits****Quarter(s): S, F, W, Sp**

Provides individualized and group instruction in reading. Students will explore their strengths and weaknesses in reading and learn to draw upon strengths to overcome comprehension barriers and successfully build from written texts.

Prerequisite: None

ENGL 97 Reading Workshop II
2 credits

Quarter(s): S, F, W, Sp

Continues individualized and group instruction in reading. Students will explore their strengths and weaknesses in reading and learn to draw upon strengths to overcome comprehension barriers and successfully build from written texts.

Prerequisite: None

ENGL 98 College-Ready English I
5 credits

Quarter(s): S, F, W, Sp

Introduces skills for reading college-level texts and writing college-level papers. Provides strategies for generating, developing, supporting, and organizing ideas, as well as revising for coherence, clarity, correctness, and documentation. This is an outcomes-based pathway to college-level composition courses.

Prerequisite: None
 Concurrent requirements: None

ENGL 99 College-Ready English II
5 credits

Quarter(s): S, F, W, Sp

Develops and refines additional skills for reading college-level texts and writing college-level papers. Provides strategies for generating, developing, supporting, and organizing ideas, as well as revising for coherence, clarity, correctness, and documentation. This an outcomes-based pathway to college-level composition courses.

Prerequisites: ENGL 098 with a grade of C or better. Concurrent requirements: None

English Language Learning (ELL)

ELL 11 Educational Interview
1-20 credits

Quarter(s): S, F, W, Sp

Develop and monitor a personal plan of action to reach personal, educational, and workplace goals through an orientation to the college community and the College Career and Prep program, resources, and services.

Prerequisites: CASAS completion

ELL 13 Educational Interview II
1-20 credits

Quarter(s): S, F, W, Sp

Develop and monitor a personal plan of action to reach personal, educational, and workplace goals through an orientation to the college community and the College Career and Prep program, resources, and services.

Prerequisites: CASAS completion

ELL 15 Educational Interview III
1-20 credits

Quarter(s): S, F, W, Sp

Develop and monitor a personal plan of action to reach personal, educational, and workplace goals through an orientation to the college community and the College Career and Prep program, resources, and services.

Prerequisites: CASAS completion

ELL 17 Educational Interview IV**1-20 credits****Quarter(s): S, F, W, Sp**

Develop and monitor a personal plan of action to reach personal, educational, and workplace goals through an orientation to the college community and the College Career and Prep program, resources, and services.

Prerequisites: CASAS Completion

ELL 51 ELL Integrated Beginning**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a beginning basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 200 and below

ELL 52 ELL Integrated Intermediate**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202-227.

ELL 53 ELL Integrated II Beginning**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a beginning basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 200 and below

ELL 54 ELL Integrated II Intermediate**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202-227

ELL 55 ELL Integrated III Beginning**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a beginning basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 200 and below

ELL 56 ELL Integrated III Intermediate**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202-227

ELL 57 ELL Integrated IV Beginning**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a beginning basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 200 and below

**ELL 58 ELL Integrated IV Intermediate
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202-227

**ELL 61 ELL Reading
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

**ELL 62 ELL Integrated Advanced
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an advanced basic education reading and writing course.

Prerequisites: Casas score CASAS appraisal exam and CASAS appraisal score of 222-238

**ELL 63 ELL Reading II
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

**ELL 64 ELL Integrated II Advanced
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an advanced basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 222-238

**ELL 65 ELL Reading III
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

**ELL 66 ELL Integrated III Advanced
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an advanced basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 222-238

**ELL 67 ELL Reading IV
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

ELL 68 ELL Integrated IV Advanced**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an advanced basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 222-238

ELL 71 ELL Writing**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

ELL 73 ELL Writing II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235

ELL 75 ELL Writing III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

ELL 77 ELL Writing IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

ELL 81 ELL Speaking and Listening**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

ELL 82 ELL Grammar**1-20 credits****Quarter(s): S, F, W, Sp**

This is an intensive English course designed to introduce and teach grammar structure strengthening basic academic skills in order to enhance personal, social, and workplace environments.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202 and above.

ELL 83 ELL Speaking and Listening II
1-20 credits

Quarter(s): S, F, W, Sp

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

ELL 84 ELL Grammar II
1-20 credits

Quarter(s): S, F, W, Sp

This is an intensive English course designed to introduce and teach grammar structure strengthening basic academic skills in order to enhance personal, social, and workplace environments.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202 and above.

ELL 85 ELL Speaking and Listening III
1-20 credits

Quarter(s): S, F, W, Sp

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

ELL 86 ELL Grammar III
1-20 credits

Quarter(s): S, F, W, Sp

This is an intensive English course designed to introduce and teach grammar structure strengthening basic academic skills in order to enhance personal, social, and workplace environments.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202 and above.

ELL 87 ELL Speaking and Listening IV
1-20 credits

Quarter(s): S, F, W, Sp

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235

ELL 88 ELL Grammar IV
1-20 credits

Quarter(s): S, F, W, Sp

This is an intensive English course designed to introduce and teach grammar structure strengthening basic academic skills in order to enhance personal, social, and workplace environments.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202 and above.

**ELLYR 51 ELL Integrated Beginning
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a beginning basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 200 and below

**ELLYR 52 ELL Integrated Intermediate
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202-227

**ELLYR 53 ELL Integrated II Beginning
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a beginning basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 200 and below

**ELLYR 54 ELL Integrated II
Intermediate****1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202-227

**ELLYR 55 ELL Integrated III Beginning
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a beginning basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 200 and below

**ELLYR 56 ELL Integrated III
Intermediate****1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202-227

**ELLYR 57 ELL Integrated IV
Beginning****1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a beginning basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 200 and below

**ELLYR 58 ELL Integrated IV
Intermediate****1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202-227

ELLYR 61 ELL Reading**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

ELLYR 62 ELL Integrated Advanced**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an advanced basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 222-238

ELLYR 63 ELL Reading II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235

**ELLYR 64 ELL Integrated II Advanced
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an advanced basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 222-238

ELLYR 65 ELL Reading III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

ELLYR 66 ELL Integrated III Advanced**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an advanced basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 222-238

ELLYR 67 ELL Reading IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

**ELLYR 68 ELL Integrated IV Advanced
1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in an advanced basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 222-238

ELLYR 71 ELL Writing**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

ELLYR 73 ELL Writing II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235

ELLYR 75 ELL Writing III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235

ELLYR 77 ELL Writing IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235 or instructor approval

**ELLYR 81 ELL Speaking and
Listening****1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235

ELLYR 82 ELL Grammar**1-20 credits****Quarter(s): S, F, W, Sp**

This is an intensive English course designed to introduce and teach grammar structure strengthening basic academic skills in order to enhance personal, social, and workplace environments.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202 and above.

ELLYR 83 ELL Speaking and Listening II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235

ELLYR 84 ELL Grammar II**1-20 credits****Quarter(s): S, F, W, Sp**

This is an intensive English course designed to introduce and teach grammar structure strengthening basic academic skills in order to enhance personal, social, and workplace environments.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202 and above.

ELLYR 85 ELL Speaking and Listening III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235

ELLYR 86 ELL Grammar III**1-20 credits****Quarter(s): S, F, W, Sp**

This is an intensive English course designed to introduce and teach grammar structure strengthening basic academic skills in order to enhance personal, social, and workplace environments.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202 and above.

ELLYR 87 ELL Speaking and Listening IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate basic education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 221-235

ELLYR 88 ELL Grammar IV**1-20 credits****Quarter(s): S, F, W, Sp**

This is an intensive English course designed to introduce and teach grammar structure strengthening basic academic skills in order to enhance personal, social, and workplace environments.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 202 and above.

Environmental Science (ENVS)

ENVS& 100 Survey of Env Science **5 credits | NSCI**

Quarter(s): F, W, Sp

Introduces the interdisciplinary field of environmental science. Students analyze concepts and issues covering ecology, biodiversity, natural resources, toxicology, population, climate change, and environmental justice. Explores solutions to human impacts on Earth's systems.

Prerequisites: None

ENVS 215 Environmental Issues & Applications

5 credits | NSCI, NSL

Quarter(s): Sp

Examines, analyzes, and solves problems stemming from many of today's most pressing issues: natural resources, energy, toxic and hazardous compounds, and human population. Uses a case study approach to investigate these issues with an emphasis on four overlapping themes: climate change, environmental toxicology, conservation biology and restoration ecology, and sustainability. Field trips may be required. Laboratory is included. Lab hours are required for this course.

Prerequisites: ENGL& 101 or consent of instructor.

ENVS 288 Cooperative Work Experience

1-15 credits

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

ENVS 299 Independent Study

1-10 credits

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

ENVS 440 Environmental Issues**5 credits | NSCI****Quarter(s): W**

An exploration of environmental issues and their effect on business, communities, and consumers.

Investigate how environmental pressures (e.g., sustainable development) and environmental problems (e.g., global warming, air pollution, waste disposal) impact corporate mission, competitive strategy, technological choices, product development decisions, production processes, and corporate responsibility. Examine basic concepts of ecology and environmental science as they relate to permitting and other business decisions. Regulation and permitting pertaining to SEPA, NEPA, the Army Corps, archaeology, and hydraulics will be studied from the perspective of local planning departments. Case studies and student investigations will be used to build technical proficiencies.

Prerequisite: Any five-credit course with a lab from the Natural Science distribution list.

Geography (GEOG)

GEOG 105 Physical Geography**5 credits | NSL****Quarter(s): F, W**

Examines the physical factors controlling the global distribution of life on Earth. Major topics include Earth-Sun relationships, biomes, weather, physical landforms, hydrology, climate, and the oceans. Lab exercises involve making and analyzing various types of maps, performing measurements, recording observations, analyzing data using basic math, and writing reports. A field trip to a local geologic site may be required. Lab hours are required for this course.

Prerequisite: None

**GEOG 297 Special Topics in
Geography****5 credits | NSCI, NSL****Quarter(s): F**

Examines the geography of a specific region of Earth's surface. Lab hours are required for this course.

Prerequisite: GEOG 105

Geology (GEOL)

GEOL& 101 Intro Physical Geology **5 credits | NSL**

Quarter(s): F, W

Examines the physical Earth with focus on plate tectonics and its influence on the rock cycle, earthquakes, volcanoes, and environmental changes over deep geologic time. Laboratory exercises include rock and mineral identification, interpretation of maps and other geologic data, performing measurements, recording observations, analyzing data using basic math, and writing reports. A field trip to a local geologic site may be required. Lab hours are required for this course.

Prerequisite: None

GEOL& 208 Geology of Pacific Northwest

5 credits | NSL

Quarter(s): F, W, Sp

Examines the Geology of the Pacific Northwest with a focus on the influence of plate tectonics on earthquakes, volcanoes, mountain building, the rock cycle, and environmental changes within the context of deep geologic time. Laboratory exercises include rock and mineral identification, interpretation of maps and other geologic data, performing measurements, recording observations, analyzing data using basic math, and writing reports. A field trip to a local geologic site may be required. Lab hours are required for this course.

Prerequisite: None

GEOL 105 Geology: Earth Revealed **5 credits | NSL**

Offers a comprehensive one-term study of the Earth's physical properties and processes. Major topics are rocks and minerals, weathering, erosion, deserts, coasts, ground water, plate tectonics, volcanoes, earthquakes, mountain building, and geologic hazards. Laboratory work, to be completed at home, includes identification of minerals and rocks and map interpretation. This telecourse is recommended only for the strongly self-motivated student. It is not intended for geology majors. Lab hours are required for this course.

Prerequisite: None

GEOL 118 Historical Geology **5 credits | NSL**

Quarter(s): Sp

Examines the physical and biological evolution of Earth as determined by evidence preserved in rocks. Major topics include geologic time, the rock cycle, long-term environmental changes, the driving force of plate tectonics, and the timeline of geologic discovery. Laboratory exercises include rock and mineral identification, interpretation of maps and other geologic data, performing measurements, recording observations, analyzing data using basic math, and writing reports. A field trip to a local geologic site may be required. Lab hours are required for this course.

Prerequisite: None

**GEOL 124 Geology Fieldtrip:
Columbia River Gorge**
1 credit | NSCI

Primarily explores the geology in the Columbia River Gorge between The Dalles, Oregon and Vancouver, Washington. Provides students with the opportunity to observe, and make hypotheses about, the processes that shape our planet and that affect humans, salmon, and other organisms. Lab hours are required for this course.

Prerequisites: None

**GEOL 288 Cooperative Work
Experience**
1-17 credits

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

GEOL 297 Special Topics in Geology
5 credits | NSCI, NSL

Quarter(s): F

Examines geologic concepts with respect to a specific region of Earth's surface.

Lab hours are required for this course.

Prerequisite: GEOL& 101

GEOL 299 Independent Study
1-10 credits

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisite: By Instructor Permission only.

Health (HLTH)

HLTH 100 Occupational Safety and Health

3 credits | REEL

Quarter(s): S, F, W, Sp

Introduces fundamental concepts and practices related to safety and hygiene in the work place, including bloodborne and airborne pathogens, and HIV/AIDS awareness and risk reducing behaviors, including for those who are chemically dependent. American Heart Association First Aid/Basic Life Support(BLS) for Healthcare Provider training is included. Students are issued AHA First Aid/BLS Health Care Provider cards upon completion.

Prerequisite: None

HLTH 105 First Aid, CPR and Bloodborne Pathogens

1 credit | REEL

Quarter(s): F, W

Instructs students in First Aid and adult, child and infant CPR through the American heart Association for healthcare providers including AED training. Students will receive first aid and CPR certification with completion of this course. This course will also cover bloodborne pathogen training, which students will also receive certification in with the completion of the course.

Prerequisite: None

HLTH 106 Health and Wellness**2 credits | ELEC****Quarter(s): F, W, Sp**

Analyzes a vast array of information on the dangers of risky health behaviors and the benefits of healthy decisions as it affects one's life. Emphasis will be on personal decision-making and positive behavioral changes toward the goal of wellness as a lifestyle.

Prerequisite: None

HLTH 110 Personal Health**2 credits | REEL**

Discusses a wide variety of major health topics. Students will look at the health topics from a personal perspective and will identify ways to enhance their own personal health and wellness. Topics may include but are not limited to: nutrition, fitness, cancer, cardiovascular disease, drugs, alcohol, tobacco, stress, relationships, psychological health, environmental health, pregnancy and childbirth, and weight management.

Prerequisite: None

HLTH 135 Food and Fitness**2 credits | ELEC**

Explores two components of a healthy lifestyle; nutrition and exercise. Introduces basic concepts of nutrition and healthy dietary choices. Provides information necessary for developing a safe, well-rounded exercise program.

Prerequisites: None

HLTH 245 Health and Exercise Behavior Change**3 credits | ELEC****Quarter(s): W**

Explores the relationship between exercise, physical health and mental health. Covers exercise and mood, personality traits, nutrition behavior, and group dynamics. Includes application of practical skills related to working with others to promote exercise adherence and health and exercise intervention.

Prerequisites: None

HLTH 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission. Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

HLTH 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

History (HIST)

HIST& 126 World Civilizations I: DIV 5 credits | HUM, ELEC, DIV Quarter(s): F

Focuses on the origins, development, and features of various societies in the ancient and classical world, including the peoples of Asia, Africa, Europe, the Americas, and Oceania. This course examines the political, social, and cultural contours of particular societies and the interactions and relationships among people of different historical cultures.

Prerequisite: None.

HIST& 127 World Civilizations II: DIV 5 credits | SOCS, DIV, ELEC Quarter(s): W

Examines the dramatic changes in world history in the pre-modern and early modern period (1500-1800), a time of profound and unprecedented transformations in many societies around the world. Historical topics include: the development of new economic systems such as mercantile capitalism; large-scale interactions such as the Columbian exchange; scientific, philosophical, and political revolutions; and new global relationships such as colonialism.

Attention will be paid to the increasing interdependence of Asia, Africa, Europe, the Americas, and Oceania.

Prerequisite: None

HIST& 128 World Civilizations III: DIV 5 credits | ELEC, SOCS, DIV Quarter(s): S, Sp

Examines the ways people have shaped and reacted to the issues of the modern world, such as 1) the emergence of global economic systems and their political, social and cultural effects; 2) the role of warfare, empire, power relations, and revolution in shaping international events; and 3) the interactions and reactions when cultural values, ideas, and technologies of many societies are in sustained contact. Attention will be paid to the sustained interdependence of Asia, Africa, Europe, the Americas, and Oceania.

Prerequisite: None.

HIST& 136 US History I 5 credits | SOCS Quarter(s): S, F, W, Sp

Focuses on the causes and effects of social, cultural, political, intellectual and economic change. Attention will also be given to the events outside North America that contributed to the emergence of the United States.

Prerequisite: None

HIST& 137 US History II 5 credits | SOCS Quarter(s): S, F, W, Sp

Focuses on the causes and effects of social, cultural, political, intellectual and economic change, from Reconstruction to the present. Attention will also be given to the events (e.g., immigration) outside North America that contributed to the emergence of the U.S. as well as the effects (e.g., imperialism) of its emergence on the rest of the world.

Prerequisite: None

**HIST& 215 Women in U.S. History: DIV
5 credits | DIV, SOCS****Quarter(s): Sp**

Focuses on the history of American women from pre-European settlement to the present. Lectures, readings, and assessments emphasize how female roles in family, work, politics, and culture have changed over time, creating new definitions of womanhood. Emphasizes the diversity among women in terms of race, ethnicity, class, and sexuality.

Prerequisite: None

**HIST 205 History of East Asia: DIV
5 credits | DIV, ELEC, SOCS****Quarter(s): Sp**

Explores the past two hundred years of East Asia history, paying particular attention to China and Japan. It examines a number of topics: 1) the political, economic, and cultural changes and continuities within East Asian societies, 2) the interrelations among these countries, and 3) their interactions with the world outside their region.

Prerequisite: None

**HIST 214 Sports in American History
5 credits | ELEC, SOCS**

Examines the American sporting experience from the colonial period through the 21st century. Focuses on the rise of organized sports institutions and how race, class, gender, ethnicity, and religion have shaped the relationship between sport and society. Students will learn about the histories of various sports, the athlete and spectator experience, consumerism and celebrity culture.

Prerequisite: None

**HIST 254 History of Washington and
the Pacific Northwest****5 credits | ELEC, SOCS****Quarter(s): S, Sp**

Provides a social, political, economic history of the Pacific Northwest with particular emphasis on the State of Washington, including Native American history and gender/ethnic history. Course meets the Washington State History requirement for teacher certification.

Prerequisite: None

**HIST 288 Cooperative Work
Experience****1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

**HIST 299 Independent Study
1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Human Development (HDEV)

HDEV 100 New Student Orientation **1 credit | REEL**

Quarter(s): S, F, W, Sp

Helps students gain in-depth knowledge of the enrollment process, student rights and responsibilities, and college policies and procedures. Emphasizes activities and services available in Career and Employment Services, Computer Labs, the Learning Center, Financial Aid, and the LCC Library. Students will be required to attend two student success series workshops.

Prerequisite: None

HDEV 101 Career Exploration and Planning

1-3 credits | REEL

Quarter(s): F, W, Sp

Uses student assessments and activities to decide aptitude and ability in combination with personality traits and personal goals to match students with potential careers. Students will explore careers, develop career goals, and map out educational plans to meet career goals.

Prerequisite: None

HDEV 106 Activities/Events Programming

1-2 credits | REEL

Involves students in development and implementation of variety of co-curricular activities. Students learn to organize educational, cultural, social, and recreational programs for campus community, as well as budget development, committee participation, and cooperative programming with campus and community organizations. Students enrolled for one credit either serve on the ASLCC Programming Board as a program director or some combination of programming committee(s) and or special projects assignment(s). Additional credit is available for additional committee or project responsibilities. This course is offered on a pass/fail basis. Lab hours are required for this course.

Prerequisite: None

**HDEV 107 Activities/Events
Programming****1-2 credits | REEL**

Involves students in development and implementation of variety of co-curricular activities. Students learn to organize educational, cultural, social, and recreational programs for campus community, as well as budget development, committee participation, and cooperative programming with campus and community organizations. Students enrolled for one credit either serve on the ASLCC Programming Board as a program director or some combination of programming committee(s) and or special projects assignment(s). Additional credit is available for additional committee or project responsibilities. This course is offered on a pass/fail basis. Lab hours are required for this course.

Prerequisite: None

**HDEV 108 Activities/Events
Programming****1-2 credits | REEL**

Involves students in development and implementation of variety of co-curricular activities. Students learn to organize educational, cultural, social, and recreational programs for campus community, as well as budget development, committee participation, and cooperative programming with campus and community organizations. Students enrolled for one credit either serve on the ASLCC Programming Board as a program director or some combination of programming committee(s) and or special projects assignment(s). Additional credit is available for additional committee or project responsibilities. This course is offered on a pass/fail basis. Lab hours are required for this course.

Prerequisite: None

HDEV 110 Job Finding Skills**1-3 credits | REEL**

Provides effective job search techniques, including identification of transferable skills, job applications, job readiness, and creative job search. Students should be ready to conduct an active job search.

Prerequisite: None

HDEV 115 Stress Management**2 credits | REEL**

Focuses on developing effective life coping skills as related to interpersonal, work, family, and academic stressors. Students examine their beliefs, emotions, and self-defeating behaviors.

Prerequisite: None

HDEV 116 Leadership and Student Government**1-3 credits | REEL**

Offers experience in elections, meeting procedure, college and ASLCC committees, planning and conducting governance activities, planning and managing budgets, deliberating issues and setting goals for student welfare, and effective leadership responsibilities. Students enrolled in this class are voting members of the Executive Council of the ASLCC. Lab hours are required for this course.

Prerequisite: Instructor permission

HDEV 117 Leadership and Student Government**1-3 credits | REEL**

Offers experience in elections, meeting procedure, college and ASLCC committees, planning and conducting governance activities, planning and managing budgets, deliberating issues and setting goals for student welfare, and effective leadership responsibilities. Students enrolled in this class are voting members of the Executive Council of the ASLCC. Lab hours are required for this course.

Prerequisite: Instructor permission

HDEV 118 Leadership and Student Government**1-3 credits | REEL**

Offers experience in elections, meeting procedure, college and ASLCC committees, planning and conducting governance activities, planning and managing budgets, deliberating issues and setting goals for student welfare, and effective leadership responsibilities. Students enrolled in this class are voting members of the Executive Council of the ASLCC. Lab hours are required for this course.

Prerequisite: Instructor permission

HDEV 120 Individual and Group Relations**1 credit | REEL****Quarter(s): S, F, W, Sp**

Extends to students opportunities in transfer information, goal setting, and other areas related to behavior change. Course may be repeated up to six times for a total of 6 credits.

Prerequisite: None

HDEV 125 Assertiveness Training**2 credits | REEL**

Examines interpersonal dynamics of relationships and personality. Students explore fears and anxieties connected to their interpersonal conflicts, as well as the impact of their personality on communication and behavior.

Prerequisite: None

HDEV 127 Student Support Services**1-3 credits | REEL**

This variable 1 - 3 credit course is designed to increase the retention, graduation, and transfer rate of first generation, low-income, and students with disabilities who are enrolled as Student Support Services participants. This course will expose students to strategies and activities designed to enhance a student's ability to learn, develop educational perspective, and improve academic performance. Emphasis on each student's Individualized Academic Plan and personal needs will determine the class content. Lab hours are required for this course.

Prerequisite: None

HDEV 128 Transfer Planning**1 credit | REEL**

Facilitates the transfer process and increases the transfer rate of students who are first-generation, low-income, and/or DSS eligible, and who are enrolled as TRiO Student Support services participants. Exposes students to strategies and activities relevant to the process of choosing, applying, and enrolling as a transfer student at a 4-year institution. Emphasis on each student's long-range academic and career plan will determine the class content. This is a stand alone course that can be repeated for up to 3 credits. Tuition waived via TRiO-SSS Grant.

Prerequisites: None

HDEV 145 Anger Management**2 credits | REEL**

Encourages students to examine irrational beliefs and self-defeating behaviors. Focus is on covert and overt behaviors contributing to the power held by our "intimate enemies."

Prerequisite: None

HDEV 150 Psychology of Humor**1-3 credits | REEL**

Engages students in laughter and play. Focuses on biological and psychological effects of humor. Designed to help students develop health-conscious environment, manage pain, cope with emotional issues, and reduce stress.

Pass/Fail grade.

Prerequisite: None

HDEV 165 Lead:Leadership Exploration and Development**2 credits | REEL**

Develops leadership skills and abilities. Introduces philosophical, theoretical, and practical elements of leadership. Increases self-awareness of personality type, communication skills, and learning styles. Explores leadership styles, skills, qualities and situations. Develops self-reliance, conflict resolution strategies, and team building skills. Addresses transferability of skills from real-life settings (such as the athletic field or court) to the learning environment and work place. Open only to student athletes.

Prerequisites: Instructor permission.

HDEV 206 Activities/Events Programming**1-2 credits | REEL**

Involves students in development and implementation of variety of co-curricular activities. Students learn to organize educational, cultural, social, and recreational programs for campus community, as well as budget development, committee participation, and cooperative programming with campus and community organizations. Students enrolled for one credit either serve on the ASLCC Programming Board as a program director or some combination of programming committee(s) and or special projects assignment(s). Additional credit is available for additional committee or project responsibilities. This course is offered on a pass/fail basis. Lab hours are required for this course.

Prerequisite: None

**HDEV 207 Activities/Events
Programming****1-2 credits | REEL**

Involves students in development and implementation of variety of co-curricular activities. Students learn to organize educational, cultural, social, and recreational programs for campus community, as well as budget development, committee participation, and cooperative programming with campus and community organizations. Students enrolled for one credit either serve on the ASLCC Programming Board as a program director or some combination of programming committee(s) and or special projects assignment(s). Additional credit is available for additional committee or project responsibilities. This course is offered on a pass/fail basis. Lab hours are required for this course.

Prerequisite: None

**HDEV 208 Activities/Events
Programming****1-2 credits | REEL**

Involves students in development and implementation of variety of co-curricular activities. Students learn to organize educational, cultural, social, and recreational programs for campus community, as well as budget development, committee participation, and cooperative programming with campus and community organizations. Students enrolled for one credit either serve on the ASLCC Programming Board as a program director or some combination of programming committee(s) and or special projects assignment(s). Additional credit is available for additional committee or project responsibilities. This course is offered on a pass/fail basis. Lab hours are required for this course.

Prerequisite: None

**HDEV 216 Leadership and Student
Government****1-3 credits | REEL**

Offers experience in elections, meeting procedure, college and ASLCC committees, planning and conducting governance activities, planning and managing budgets, deliberating issues and setting goals for student welfare, and effective leadership responsibilities. Students enrolled in this class are voting members of the Executive Council of the ASLCC. Lab hours are required for this course.

Prerequisite: Instructor permission

HDEV 217 Leadership and Student Government**1-3 credits | REEL**

Enhances students' ability to become effectual leaders in educational or work environment through situational leadership, teamwork, motivational techniques, ethical decision-making, budgeting, and various seminars. Students will represent student constituency through governmental process. Lab hours are required for this course.

Prerequisite: Instructor permission

HDEV 218 Leadership and Student Government**1-3 credits | REEL**

Enhances students' ability to become effectual leaders in educational or work environment through situational leadership, teamwork, motivational techniques, ethical decision-making, budgeting, and various seminars. Students will represent student constituency through governmental process. Lab hours are required for this course.

Prerequisite: Instructor permission

HDEV 221 Peer Mentoring I**2 credits | REEL**

Introduces Peer Mentoring principles to Student Support services Peer Mentors to increase the retention, graduation, and transfer rate of first-generation, low-income, and students with disabilities who are enrolled as Student Support Services first-year participants. Exposes Student Support Services Peer Mentors to strategies and activities designed to enhance first-year students' abilities to learn, develop educational perspective, and improve academic performance. Topics include leadership, communication, conflict resolution, stress management, and various other mentoring skillsets. Maximum number of credits possible: 2. Tuition waived.

Prerequisites: Students must be chosen to be Student Support Services Peer Mentors to enroll in the course.

HDEV 222 Peer Mentoring II**2 credits | REEL**

Provides additional instruction for Peer Mentoring principles to Student Support services Peer Mentors to increase the retention, graduation, and transfer rate of first-generation, low-income, and students with disabilities who are enrolled as Student Support Services first-year participants. Exposes Student Support Services Peer Mentors to strategies and activities designed to enhance first-year students' abilities to learn, develop educational perspective, and improve academic performance. Topics include leadership, communication, conflict resolution, stress management, and various other mentoring skillsets. Maximum number of credits possible: 2. Tuition waived.

Prerequisites: HDEV 221 or instructor permission.

HDEV 223 Peer Mentoring III**1 credit | REEL**

Concludes training for Peer Mentoring principles to Student Support services Peer Mentors to increase the retention, graduation, and transfer rate of first-generation, low-income, and students with disabilities who are enrolled as Student Support Services first-year participants. Exposes Student Support Services Peer Mentors to strategies and activities designed to enhance first-year students' abilities to learn, develop educational perspective, and improve academic performance. Topics include leadership, communication, conflict resolution, stress management, and various other mentoring skillsets. Maximum number of credits possible: 2. Tuition waived.

Prerequisites: HDEV 222 or instructor permission.

HDEV 288 Cooperative Work**Experience****1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

HDEV 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

HDEV 75 Journeys-A Workshop for Women**2 credits**

Targets women in life transitions - divorce, empty nest, job loss, etc., and provides them with tools to understand the challenges involved in change and new beginnings. Explores the process of transition, models of adapting to change, self awareness, and self assessment. Participants will explore educational and career options, with a focus on non-traditional careers that offer high-wage, high-demand opportunities, and develop a personal Success Plan. Meets for seven weeks and is graded on a pass/fail basis.

Prerequisite: None

HDEV 80 Transitions**2-7 credits**

Explores and develops the coping skills, attitudes, and behaviors needed to deal with job loss or underemployment and move forward with career and life planning. Main topics include dealing with job loss, assessing interests and skills, career exploration, goal setting, and job finding skills. Additional topics may include specialized skill assessment, financial management, utilizing community resources, advanced interview preparation, computerized job search. Skill building in reading, writing, math, and computers may also be integrated with these studies. Lab hours are required for this course.

Prerequisite: None

HDEV 90 Success By Your Design
2 credits

Explores the connection between their thoughts and behaviors. Students will apply concepts in this interactive course to cultivate "Thought patterns for a Successful Career." Through self-reflection and discussion, students will examine thought processes and how to control them, as well as understand how the mind works to create beliefs, habits, and attitudes, thus re-calibrating them for success.

Prerequisite: None.

Humanities (HUM)

HUM& 116 Humanities I
5 credits | HUM

Quarter(s): F

Survey of major movements in philosophy, art, music, architecture, and literature from prehistory to 1300 C.E. Students will explore, analyze, and discuss the era's masterpieces from around the world as well as the historical and cultural influences of the birth of civilization in the Near and Far East, the Classical Eras of Greece, Rome, and China, and the rise of Buddhism, Christianity, and Islam upon such works and the masters who created them.

Prerequisite: None

HUM& 117 Humanities II
5 credits | HUM

Quarter(s): S, W

Survey of major movements in philosophy, art, music, architecture, and literature from 1300 to 1800 C.E. Students will explore, analyze, and discuss the era's masterpieces from around the world as well as the historical and cultural influences of the Renaissance, the baroque period, the Reformation, the Enlightenment, the Scientific Revolution, and cross-cultural encounters upon such works and the masters who created them.

Prerequisite: None

HUM& 118 Humanities III
5 credits | HUM

Quarter(s): Sp

Survey of major movements in philosophy, art, music, architecture, and literature from 1800 C.E. to the present. Students will explore, analyze, and discuss the era's masterpieces from around the world as well as the historical and cultural influences of the Romantic Era, colonialism, Freudian theory, World Wars I and II, totalitarianism, postmodernism, and the Information Age upon such works and the masters who created them.

Prerequisite: None

HUM 104 Ethics and Cultural Values:
DIV

5 credits | HUM, DIV

Quarter(s): S, W

Explores and analyzes moral issues from various perspectives and examines elements of virtue, duty, obligation, and rights from various classical, traditional, and contemporary systems as presented in Western, Hindu, Buddhist, Confucian, Islamic, and/or African writings, films, literature, and/or practices.

Prerequisite: None

HUM 106 Community Conversations**1 credit | ELEC****Quarter(s): F, Sp**

A weekly presentation/discussion series addressing contemporary issues in American life. The areas and issues contemplated include politics, the family, religion, the environment, health care, the economy and other important issues.
Prerequisites: None

HUM 107 How to See a Play**1 credit | HUM, ELEC****Quarter(s): F, W, Sp**

Read play produced by LCC Center Stage and attend performance. After performance, actors, director, and designers participate in talkback session, answering questions prepared by students regarding play, production, and various elements required for a play presentation. Talkback includes social, political, philosophical and psychological components of the play and actor interpretation of the role(s) played.
Prerequisite: None

HUM 109 Critical Interpretation of Media**3 credits | ELEC, HUM****Quarter(s): S, F, W, Sp**

Provides an introduction to the way our perception of media and information is shaped by internal and external factors including social identity, worldview, and inherent human biases. Attention will also be given to how media organizations use these factors and others to influence public opinion. By the end of the course, students will have developed practical skills to critically evaluate media and information.
Prerequisites: None

HUM 120 Regional Life and Culture**5 credits | HUM****Quarter(s): S, F, Sp**

Explores the concept of "place," local and global, in culture, story, history, and personal geography. Encourages the development of individual perspectives regarding being inside or outside one's "place" or culture and the knowledge of a self as a global citizen. Intended primarily for international and study abroad students.
Prerequisites: Enrollment in Study Abroad Program OR instructor permission.

Prerequisites: Enrollment in Study Abroad Program OR instructor permission.

HUM 124 Arts Magazine Publication I**1-3 credits | ELEC, HUM****Quarter(s): F**

Instructs and guides students through the first stage in an annual publication process for creating and editing The Salal Review (Lower Columbia College's literary and visual arts magazine). Students in this stage of the publication process work primarily with literary art submissions: marketing for, collecting, critiquing, selecting, editing, and creating a design plan for various forms of poetry and prose to be displayed in the annual printed and digital magazine. Students may repeat HUM 124 for a maximum of two quarters, not to exceed 6 credits total. Credit hour enrollment determines student workload for the publication process. Lab hours are required for this course.
Prerequisites: None

Prerequisites: None

HUM 125 Arts Magazine Publication II
1-3 credits | ELEC, HUM
Quarter(s): W

Instructs and guides students through the second stage in an annual publication process for creating and editing The Salal Review (Lower Columbia College's literary and visual arts magazine). Students in this stage of the publication process work primarily with visual art submissions: marketing for, collecting, critiquing, selecting, editing, and creating a design plan for various forms of visual art to be displayed in the annual printed and digital magazine alongside previously selected literary art submissions. Students may repeat HUM 125 for a maximum of two quarters, not to exceed 6 credits total. Credit hour enrollment determines student workload for the publication process. Lab hours are required for this course.

Prerequisites: None

HUM 126 Arts Magazine Publication III
1-3 credits | ELEC, HUM
Quarter(s): Sp

Instructs and guides students through the third and final stage in an annual publication process for creating and editing The Salal Review (Lower Columbia College's literary and visual arts magazine). Students in this stage of the publication process work primarily with multimedia art submissions (not suitable for print): marketing for, collecting, critiquing, and creating a design plan for various forms of multimedia art to be displayed in the annual digital magazine. Students will also finalize the print and digital publication process for the year and host a publication launch party for the campus and community. Students may repeat HUM 126 for a maximum of two quarters, not to exceed 6 credits total. Credit hour enrollment determines student workload for the publication process. Lab hours are required for this course.

Prerequisites: None

HUM 131 Introduction to World Religions: DIV
5 credits | HUM, DIV
Quarter(s): F

Explores the major religions of the world including Judaism, Christianity, Islam, Hinduism, Buddhism, Jainism, Shintoism, Sikhism, Confucianism, and Daoism.

Prerequisites: None

HUM 150 Ethics and Policy in Healthcare I**1 credit | HUM****Quarter(s): F, W, Sp**

Introduces ethical and legal principles governing healthcare with a focus on nursing practice. Discusses historic milestones in nursing. First in a series of three courses on ethics and policy in healthcare. Restricted to students admitted to the nursing program.

Prerequisites: Admission to the nursing program. Co-requisites: NURS 151 or Nursing Program Director permission.

Prerequisites: Admission to the nursing program
Concurrent requirements: NURS 151 or Nursing Program Director permission

HUM 164 Cultural Journeys: DIV**5 credits | DIV, HUM****Quarter(s): F, W**

Explores the rich cultural heritage of different nationalities, ethnic groups and regions as expressed through a people's music, literature, film, art and critical writing. Quarterly offerings will focus on different cultural groups and their attempts to develop a rich and complex understanding of human existence.

Prerequisites: None

HUM 210 Myth and Rites: DIV**5 credits | DIV, HUM****Quarter(s): S, F, W, Sp**

Defines and explores examples of creation, flood, and resurrection myths as well as diverse examples of initiation, celebration, religious, and political rites from around the world and across time. The significance of such myths and rites are also explored through the analysis of works of drama, literature, and film.

Prerequisite: None

HUM 230 Thinking About Thinking**5 credits | HUM****Quarter(s): W**

Examines and explores the role of critical thinking and analysis in evaluating written material to include literature, non-fiction prose, and media sources. Applies various models from formal logic and literary criticism to discover both the explicit and implicit meaning of fiction, non-fiction prose and media sources.

Prerequisites: ENGL& 101 (was ENGL 101) or instructor permission.

HUM 250 Ethics and Policy in Healthcare II**2 credits | HUM****Quarter(s): F, W, Sp**

Presents organizational structures, legal considerations, policies, procedures and ethical principles/theories related to healthcare. Second course in a series of three courses. Restricted to students admitted to the nursing program.

Prerequisites: HUM 150 with a grade of 'C' or higher. Co-requisites: NURS 152 or Nursing Program Director permission.
Concurrent requirements: NURS 152 or Nursing Program Director permission

HUM 251 Ethics and Policy in Healthcare III**2 credits | HUM****Quarter(s): F, W, Sp**

Presents research, leadership, workplace issues and ethical dilemmas in healthcare with an emphasis on nursing. Final course in a series of three courses. Restricted to students admitted to the nursing program.

Prerequisites: HUM 250 or 3 credits HUM 255 with a grade of 'C' or higher.
Co-requisites: NURS 253 or Nursing Program Director permission. Co-requisites: NURS 253 or Nursing Program Director permission

HUM 255 Ethics and Policy in Healthcare**5 credits | HUM****Quarter(s): F**

Introduces ethical and legal principles governing healthcare with a focus on nursing practice. Discusses historic milestones in nursing. Presents organizational structures, legal considerations, policies, procedures and ethical principles/theories related to healthcare. Builds upon previous concepts in research, leadership, workplace issues and ethical dilemmas in healthcare with an emphasis on nursing. Fulfills distribution requirement for AN-DTA only. Restricted to students admitted to the nursing program. Prerequisite: Admission to the Nursing program.

HUM 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

HUM 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisite: By Instructor Permission only.

HUM 315 Ethics**5 credits | HUM****Quarter(s): F**

Provides students a foundation in ethics as applied to businesses and organizations with a focus on ethics related to management issues. Examine the role of ethics and social responsibility in the management of public and private sector organizations and businesses. Explore theoretical concepts in business ethics and apply them to real-world situations based on challenges managers face. Understanding several actual publicized local ethical lapses and the consequences on the affected organization will be utilized as an integral component of this course. An emphasis on contemporary trends in corporate responsibilities with respect to ethical, legal, economic, and regulatory conditions in the global marketplace will be included.

Prerequisite: Any five-credit humanities course from the distribution list

Information Technology (IT)

IT 100 IT Fundamentals

5 credits | ELEC

Quarter(s): S, F, W, Sp

Develops the knowledge to identify and explain basic computer components, set up a basic workstation, conduct basic software installation, establish basic network connectivity, identify compatibility issues and identify/prevent basic security risks. This course will also focus on the areas of safety and preventative maintenance of computers and is intended for students who are considering a career in IT and later considering the pursuit of a Comptia A+ or similar certification. Lab hours are required for this course.

Prerequisite: BUS 100

IT 102 Introduction to Web Design

5 credits | REEL

Quarter(s): W

Offers concepts, fundamentals, and techniques of web page design. Topics include web page usability, design principles and development, site planning, and implementation. HTML scripting language and Cascading Style Sheets are used to create structural and presentational web pages. Students will use concepts presented in the course for development of personal and commercial web pages. Lab hours are required for this course.

Prerequisite: IT 100 or co-enrollment, or instructor permission

IT 111 Intro to Windows

4 credits | REEL

Quarter(s): S, F

Offers an introduction to the study of the Microsoft Windows operating system. Presents fundamental concepts of a Microsoft Windows client operating system such as file management and customizing a graphical user interface (GUI). Lab hours are required for this course.

Prerequisite: None

IT 140 Configuring Windows Operating System

4 credits | REEL

Quarter(s): F

Presents installing, deploying, configuring, monitoring, and maintaining systems that run Microsoft Windows OS. Installation, system images, application, networking, resource allocation, mobile computing, monitoring, maintenance, backup, and recovery topics are included. Continues to prepare students for Microsoft's Certification: Configuring Windows Operating System. Lab hours are required for this course.

Prerequisite: IT 100 IT Fundamentals (5 credits)

IT 141 PC Technician I**4 credits | REEL****Quarter(s): F, W**

Provides an overview of the roles of the PC technician including: protection and safety of users, acting in a professional manner, communication, and documentations are examined. Technical topics include installation, maintenance, and troubleshooting of system components, peripheral devices, storage, printers, mobile devices, and networking. Prepares students for TestOut's PC Pro and CompTIA's A+ certification exams. Lab hours are required for this course.

Prerequisite: IT 100 (was CS 100) with a C or better, or instructor permission.

IT 142 PC Technician II**4 credits | REEL****Quarter(s): Sp**

Continues an overview of the roles of the PC technician including: protection and safety of users, acting in a professional manner, communication, and documentations are examined. Technical topics include installation, maintenance, and troubleshooting of system components, peripheral devices, storage, printers, and networking.

Continues preparation of students for TestOut's PC Pro and CompTIA's A+ certification exams. Lab hours are required for this course.

Prerequisites: IT 141 (was CS 141) with a grade of C or better, or instructor permission.

IT 211 Introduction to Networking**5 credits | REEL****Quarter(s): F**

Introduces the fundamental building blocks that form a modern network, such as protocols, media, topologies, and hardware. It then provides in depth coverage of the most important concepts in contemporary networking, such as TCP/IP, Ethernet, wireless transmission, virtual networks, security, and troubleshooting. This course is focused on preparing students for the COMPTIA Network + Certification. Lab hours are required for this course.

Prerequisite: IT 140 with a grade of C or better or instructor permission.

IT 212 Installing and Configuring Windows Server**5 credits | REEL****Quarter(s): W**

Provides in-depth knowledge of Windows Server, including installation, local and remote management, file and storage services, Active Directory, group policies, TCP/IP, networking services, and Hyper-V virtualization has been acquired. This course prepares students for Microsoft server certification exam objectives and focuses on the skills needed to install and configure Windows Server. Lab hours are required for this course.

Prerequisite: IT 211 (was CS 211) with a grade of C or better or instructor permission.

IT 213 Local Area Networks: Configuring Windows Server Network Infrastructure

5 credits | REEL

Quarter(s): Sp

Prepares students for the Microsoft Technology Specialist exam: Windows Server Network Infrastructure Configuring. Focuses on the details of configuring the infrastructure of a network. Lab hours are required for this course.

Prerequisites: IT 212 (was CS 212) with a grade of C or better or instructor permission.

IT 220 Intro to Cloud Computing 3 credits | REEL

Quarter(s): Sp

Provides an overview of cloud computing from a non-technical perspective. Includes the value of cloud computing, cloud types, adoption of the cloud, impact and changes on IT services, and risks of implementation. Prepares students for the CompTIA Cloud Essentials certification Cloud+. Includes both theoretical study of cloud computing and hands on labs. Lab hours are required for this course.

Prerequisites: IT 140 (was IT 143) or IT 211 (was CS 211) with a grade of C or better, or instructor permission.

IT 230 Database Development 5 credits | REEL

Quarter(s): F

Offers further study and use of computerized database management systems. Provides intermediate theory and practice in a disciplined approach to problem solving using a database management system in a business environment.

Prerequisite: BTEC 135, Advanced Data Analysis with a grade of C or better, or instructor permission.

IT 235 Introduction to Big Data

5 credits | REEL

Provides an introduction to concepts used in data mining and data-analytics, including exploration and application of data modeling tools. Lab hours are required for this course.

Prerequisites: IT 230 (was CS 230) with a grade of C or better, or instructor permission.

IT 249 Linux Operating Systems

5 credits | REEL

Quarter(s): W

Prepares students for application of Linux+ certification knowledge and skills. Course is focused on meeting Comptia Linux+ certification objectives in both knowledge and hands on lab practice. It is recommended that most students will need some experience with Linux in the work place prior to attempting the Linux + exam. Lab hours are required for this course.

Prerequisites: IT 140 (was IT 143) and IT 211 (was CS 211) each with a grade of C or better, or instructor permission.

IT 260 Info Tech Security

5 credits | REEL

Quarter(s): Sp

Prepares students for application of Security+ certification knowledge and skills. Course is focused on meeting Comptia Security+ certification objectives in both knowledge and hands on lab practice. It is recommended that most students will need some experience with Linux in the work place prior to attempting the Security+ exam. Lab hours are required for this course.

Prerequisites: IT 211 (was CS 211) with a grade of C or better, or instructor permission.

**IT 288 Cooperative Work Experience
1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

**IT 299 Independent Study
1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisite: By Instructor Permission only.

Intensive English as a Second Language (IESL)

**IESL 299 Independent Study
1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisite: By instructor permission only.

**IESL 61 Speaking/Listening I
5 credits****Quarter(s): S, F, W, Sp**

Provides practice in listening to everyday conversational vocabulary in a variety of meaningful contexts as a first-beginner level. Requires students to respond to simple questions, follow short dialogs, and identify topics in short passages with familiar or pre-taught vocabulary. The speaking portion of the course is designed for students with limited knowledge about English from previous study. Provides practice in speaking English at a beginner level. Improves pronunciation through practice in production of consonant sounds, intonation and rhythm. Focuses on conversational language using familiar topics in a variety of everyday contexts. Introduces culture of the American classroom. This course is part of an intensive English program and provides speaking and listening practice for beginning level. This course may be repeated as needed until reaching competency. Successful completion at an 80% or better allows a student to transition into a level II speaking and listening intensive English course. Prerequisites: None Concurrent requirements: IESL Reading, IESL Writing, IESL Grammar

IESL 62 Speaking/Listening II**5 credits****Quarter(s): S, F, W, Sp**

Provides listening practice in listening a high intermediate level. Strengthens listening skills by building vocabulary and by listening to longer passages and dialogs. Requires students to listen regularly to and understand main ideas in authentic sources of English (TV, radio, video, interviews, etc.) and to comprehend paragraph-length listening passages with familiar or pre-taught vocabulary. Provides speaking practice at the high-intermediate level. Provides more practicing speaking through use of natural situation language and functional language. Provides conversation practice on everyday topics. Stresses ability to discriminate and produce vowel and consonant sounds, to use correct word order, and to respond in complete sentences. This course is part of an intensive English program and provides speaking and listening practice for beginning to intermediate level. This course may be repeated as needed until reaching competency. Successful completion allows a student to transition into a level III speaking and listening intensive English course.

Prerequisites: Completion of IESL level I at and 80% or better or testing placement at level II. **Concurrent requirements:** IESL - Reading, IESL - Writing, IESL - Grammar

IESL 63 Speaking/Listening III**5 credits****Quarter(s): S, F, W, Sp**

Provides listening practice in listening to everyday conversational vocabulary in a variety of meaningful contexts at a low -intermediate level. Requires students to respond to simple questions, follow short dialogs, and identify topics in short passages with familiar or pre-taught vocabulary. Provides students practice in speaking English at a low -intermediate level. Improves pronunciation through practice in production of consonant sounds, intonation and rhythm. Focuses on conversational language using familiar topics in a variety of everyday contexts. Introduces culture of the American classroom. This course is part of an intensive English program and provides speaking and listening practice for high -intermediate level.

Prerequisites: Completion of IESL level II at an 80% or better or testing placement at level III. **Concurrent requirements:** IESL Reading, IESL Writing, IESL Grammar

IESL 64 Speaking/Listening IV**5 credits****Quarter(s): S, F, W, Sp**

Provides practice in listening to academic English in both formal and informal contexts. Develops skills in listening to "real" English outside the classroom, comprehending reduced speech and fast idiomatic English, and lecture note taking. Provides speaking practice at the academic level of English. Focuses on discussions of cultural or controversial topics or current events. May require pre-discussion activities in listening or reading as preparation. Provides clarification as needed on degrees of formal and informal language, metaphorical speech, euphemisms, and "sexist" language. Stresses production of comprehensive English. Reinforces understanding of the culture of the American classroom. This course is part of an intensive English program and provides speaking and listening practice for high level. This course may be repeated as needed until reaching competency. Successful completion allows a student to transition out of speaking and listening intensive English courses.

Prerequisites: Completion of IESL level III in speaking/listening at an 80% or better or testing placement at level IV
 Concurrent: IESL Reading, Writing, Grammar if not at an 80% at level IV

IESL 71 Reading I**5 credits****Quarter(s): S, F, W, Sp**

Develops reading comprehension for everyday uses, such as reading and understanding directions, forms, letters, short dialogs and stories. Provides instruction and practice in reading strategies, including pre-reading activities (prediction), understanding of spelling patterns, use of context clues, checking for meaning and identifying details. Introduces reading fluency. This part of the International Program and this course may be repeated until successful progress at 80% or better has been met. Prerequisites: None Concurrent requirements: IESL - Speaking/Listening, IESL - Writing, IESL - Grammar

IESL 72 Reading II**5 credits****Quarter(s): S, F, W, Sp**

Provides reading practice with intermediate level reading materials in both non-fiction and fiction. Provides practice with previously learned reading strategies, including pre-reading activities (prediction), understanding of spelling patterns, use of context clues, checking for meaning and identifying details. Introduces reading fluency testing to build fluency and flow in reading. Identifies core academic vocabulary lists. This is part of the International Program and this course may be repeated until successful progress has been met.

Prerequisites: Completion of IESL 071 at an 80% or better or testing into level II reading. Concurrent requirements: IESL - Speaking/Listening, IESL - Writing, IESL - Grammar

IESL 73 Reading III**5 credits****Quarter(s): S, F, W, Sp**

Provides practice for use of comprehension strategies necessary for independent reading. Increases reading fluency while building literary and academic vocabulary. Develop strategies to help extract the main idea, supporting details, and the author's purpose in texts. Requires in-depth reading of academic materials in both print and online formats. Builds higher level academic vocabulary. This course may be repeated until successful progress has been met at 80% or higher.

Prerequisites: IESL 072 completion at an 80% or better or placement testing into level III. Concurrent requirements: IESL - Speaking/Listening, IESL - Writing, IESL - Grammar

IESL 74 Reading IV**5 credits****Quarter(s): S, F, W, Sp**

Provides practice for extracting key elements in a text. Increase reading fluency while building literary and academic vocabulary. Identify the author's purpose in texts and expand on the inferred meaning. Identifies how to summarize reading of academic materials in both print and online formats. Utilized prior learning to make predictions, analyze and make inferences about texts. This is part of the International Program and this course may be repeated until successful progress has been met at 80% or better at Level IV.

Prerequisites: IESL 073 with an 80% or higher or testing into Level IV.

Concurrent requirements: IESL courses at any level lower than IV.

IESL 81 Writing I**5 credits****Quarter(s): S, F, W, Sp**

Provides practice in writing for simple and compound sentence development; simple tenses; declarative, question, and imperative forms; and singular and plural forms of nouns and verbs. Identifies and models the steps in the writing process related to paragraph development. Focuses on writing at the complete sentence level. This course may be repeated as needed.

Prerequisites: None Concurrent requirements: IESL Speaking/Listening, Reading and Grammar

IESL 82 Writing II**5 credits****Quarter(s): S, F, W, Sp**

Focuses on writing at the paragraph and beginning essay level. Develops understanding of the writing process related to essay writing. Reviews and teaches articles, gerunds, modals, infinitives and the use of past perfect and past progressive verbs. Provides writing practice for concept mapping/webs, outlines, rough drafts, peer revision and final drafts of basic essays. This course may be repeated as needed.

Prerequisites: Successful completion of Writing I at an 80% or better or testing into Writing II. Concurrent requirements: IESL Speaking/Listening, Reading and Grammar

IESL 83 Writing III**5 credits****Quarter(s): S, F, W, Sp**

Extends writing skills at the paragraph and essay levels of organization. Provides opportunities to develop planning, organizing and revising strategies for development of academic level writing. Reinforces skills gained in previous levels for summarizing and writing essays. This course may be repeated as needed.

Prerequisites: Successful completion of Writing II at an 80% or better or testing into Writing III. Concurrent requirements: Other IESL courses if below level IV in any subject area.

IESL 84 Writing IV**5 credits****Quarter(s): S, F, W, Sp**

Focuses on college writing. Provides opportunities to improve planning and organizing academic writing. Requires utilization of revision strategies for development of academic level writing. Reinforces skills gained in previous levels for summarizing and writing essays. Identifies strategies to respond/react to writing a summary of the main points of a textbook and how to evaluate own academic writing skills. This course may be repeated as needed.

Prerequisites: Successful completion of Writing III at an 80% or better or testing into Writing IV. Concurrent requirements: IESL courses at levels below IESL IV and or English 101

IESL 90 Special Projects - Academic General Support**1-3 credits****Quarter(s): W**

Provides opportunities for the study of various topics in the transitional phase into college-level classes. Provides individualized study in any area of listening, speaking, reading, writing, or grammar. Includes goal setting and measurement of goals for a lacking academic area. Supports international students who are struggling in one or more subject areas. This course may be repeated for credit depending on student academic progress in college level courses.

Prerequisites: None.

IESL 91 Special Projects - Academic English**1-3 credits****Quarter(s): W**

Provides opportunities for the study of various topics in the transitional phase into college-level English class (English 101 or above). May serve as an opportunity for individualized study in any area of listening, speaking, reading, writing, or grammar. Includes goal setting and measurement of goals for English classes (English 101 or above). Supports international students who are struggling in a college level English course. This course may be repeated for credit depending on student academic progress in college level courses.

Prerequisites: None
Concurrent requirements: English 101 or above

IESL 93 Grammar I**3 credits****Quarter(s): S, F, W, Sp**

Introduces students to the simple present tense verb 'to be'. Models how to add articles, adjectives, and nouns. Introduces students to other simple present tense statements, negatives, questions, and short answers. Identifies imperatives, adverbs of frequency, and simple modals. Introduces students to new tenses: present continuous, simple past, future going to and will, and present perfect. This course may be repeated until student reaches 80% proficiency at this level.

Prerequisites: None
 Concurrent requirements: IESL - Reading, IESL - Writing, IESL - Speaking/Listening

IESL 94 Grammar II**3 credits****Quarter(s): S, F, W, Sp**

Introduces students to new tenses: present continuous, simple past, future going to and will, and present perfect. Introduces them to possessive, direct and indirect objects, linking verbs, quantifiers, comparatives, superlatives, more advanced modals, and conditionals. This course may be repeated until student reaches proficiency at this level.

Prerequisites: Complete Grammar I at an 80% or better or test into level II. Concurrent requirements: IESL - Reading, IESL - Writing, IESL - Speaking/Listening

IESL 95 Grammar III**3 credits****Quarter(s): S, F, W, Sp**

Develops use of simple present, present continuous, simple past, future going to and will, and present perfect. Develops use of possession, direct and indirect objects in writing. Uses linking verbs, quantifiers, comparatives, superlatives, more advanced modals, and conditionals. Introduces new concepts: passive voice. Develops use of passive voice in simple present and past tense. Introduces past perfect tense. Introduces unreal conditionals, gerunds and infinitives, adjective clauses, adverbial clauses, negative questions. This course may be repeated until student reaches proficiency at this level.

Prerequisites: Complete Grammar II at an 80% or better or test into Grammar III. Concurrent requirements: IESL courses in subjects with a less than 80% proficiency at level IV.

IESL 96 Grammar IV**3 credits****Quarter(s): S, F, W, Sp**

Focuses on constructing complete, complex, compound and complex/compound sentences. Develops skills in use of colon, semi-colon, commas, quotations and split quotations. Uses unreal conditionals, gerunds and infinitives, adjective clauses, adverbial clauses, negative questions. Develops use of passive voice in other tenses. Identifies misused words, word families, abbreviations and how to correct double negatives. This course may be repeated until student reaches proficiency at this level.

Prerequisites: Complete Grammar III at an 80% or better or test into level IV. Concurrent requirements: IESL courses with a lower than 80% proficiency below level IV.

Library (LIBR)

LIBR 101 Introduction to Library and Information Research**2 credits | REEL**

Introduces students to the basic principles of information research. Emphasis is placed on the process of locating and evaluating information in both print and online formats. Includes basic introduction to searching the Internet, online databases, online library catalogs, and the use of various tools to access information. An annotated bibliography will be developed in an academic area of the students' choice. This course is especially helpful to those enrolled in classes with a required research paper.

Prerequisite: None.

LIBR 104 Information Literacy II**2 credits | REEL**

Reinforces basic research skills, strategies, and tools of information. Develops an understanding of the entire research process, from identifying topics to creating an annotated bibliography. Topics include narrowing and refining electronic searches, finding access to many types of resources, and evaluating popular and scholarly sources using a variety of criteria. Avoidance of plagiarism and correct documentation will be emphasized. Lab hours are required for this course.

Prerequisite: None

LIBR 204 Information Literacy III**1-2 credits | REEL**

Guides students through the process of designing and completing a complex research assignment. Emphasis will be placed on evaluating information, including assessing the differences between databases and applying a rubric of information evaluation. Additional topics addressed include proper usage of quotations, citation styles, and annotated bibliographies. Part 1 includes refining a research topic, finding sources, and identifying and avoiding plagiarism. Part 2 focuses on evaluation and annotation of sources and reflection on the research project. Lab hours are required for this course.

Prerequisite: None

LIBR 288 Cooperative Work Experience

1-15 credits

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

LIBR 299 Independent Study

1-10 credits

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisites: By instructor permission only.

LIBR 94 Information Literacy I

2 credits | REEL

Introduces students to the basic skills, strategies, and tools of information research. Emphasis is placed on the process of identifying information needs, selecting appropriate sources, and evaluating information for accuracy. Students will gain competency in using traditional resources, e.g., the library catalog, and also explore electronic resources such as databases and Internet search engines. Lab hours are required for this course. Prerequisite: None

Machine Trades (MASP)

MASP 107 Machining for Related Occupations

2-6 credits | REEL

Quarter(s): S, F, W, Sp

This course will expose students to three basic types of machine tools as well as general shop safety, layout, cutting tool geometry, and precision measuring. The three areas of focus will be hole operations such as drilling, reaming, and tapping, engine lathe operations such as turning, facing, and boring, and the basic operation of the vertical milling machine. Lab hours are required for this course. Prerequisite: None

MASP 111 Machine Shop I

2-10 credits | REEL

Quarter(s): S, F, W, Sp

Designed to introduce the beginning student to the safe operation of basic hand tools, saws, bench grinders, drill press and the engine lathe. The student will use these tools to complete basic projects designed to use the equipment in a wide variety of operations to develop basic skills. Lab hours are required for this course. Prerequisite: None

MASP 112 Machine Shop II**2-10 credits | REEL****Quarter(s): S, F, W, Sp**

Continues building skills learned in MASP 111, while expanding the scope to include more advanced procedures on equipment used in the previous class. This class also introduces new equipment such as a shaper and surface grinder, along with tools and procedures required for their safe operation. Lab hours are required for this course.

Prerequisite: 10 credits of MASP 107 and/or MASP 111

MASP 113 Machine Shop III**2-10 credits | REEL****Quarter(s): S, F, W, Sp**

Teaches students the use of milling machines and carbide cutting tools. This course will cover various techniques of holding parts and the proper use of different styles of machinery. The student will also learn to apply basic and advanced procedures to accomplish the required tasks. Lab hours are required for this course.

Prerequisite: 10 credits of MASP 112

MASP 204 CNC Machining Center Fundamentals**3 credits | REEL****Quarter(s): S, F, W, Sp**

This course introduces students to the history, theory, and workings of computer numerically controlled Machining Centers. The course provides a basic understanding of the required skills to program, set-up, and operate computerized machine tools.

Prerequisite: None

MASP 205 CNC Turning Center Fundamentals**3 credits | REEL****Quarter(s): S, F, W, Sp**

This course introduces students to the history, theory, and workings of computer numerically controlled Turning Centers. The course provides a basic understanding of the required skills to program, set-up, and operate computerized machine tools.

Prerequisite: None

MASP 221 CNC Milling**2-10 credits | REEL****Quarter(s): F, W, Sp**

Introduces students through hands-on experience to the basic operations of CNC machines. Working with computer controlled mills, basic machine functions are used to produce parts of various shapes that could not be easily made on conventional equipment. Lab hours are required for this course.

Prerequisite: MASP 204

MASP 222 CNC Turning**2-10 credits | REEL****Quarter(s): F, W, Sp**

Introduces students through hands-on experience to the basic operations of CNC machines. Working with computer controlled turning centers, basic machine functions are used to produce parts of various shapes that could not be easily made on conventional equipment. Lab hours are required for this course.

Prerequisite: MASP 205

MASP 223 Advanced CNC Processes
2-10 credits | REEL

Quarter(s): F, W, Sp

This course exposes the student to advanced machining practices on the CNC Machining Center and CNC Turning Center including introduction of 4th axis set-ups and programmable tailstock operations. It will also include nontraditional set-ups. Lab hours are required for this course.

Prerequisite: MASP 221 or MASP 222

MASP 288 Cooperative Work Experience

1-15 credits

Quarter(s): F, W, Sp

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

MASP 299 Independent Study
1-10 credits

Quarter(s): F, W, Sp

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

MASP 71 Machine Shop Support I
1 credit | REEL

Introduces machine shop practices.

This theory course addresses topics such as the appropriate uses and safe operation of basic hand tools, saws, bench grinders, drill press and the engine lathe.

Prerequisite: None Concurrent requirement: MASP 111

MASP 72 Machine Shop Support II
1 credit | REEL

Introduces machine shop practices. This theory course addresses topics such as basic metallurgy and the appropriate uses and safe operation of milling machines and grinding machines.

Prerequisite: None Concurrent requirement: MASP 111

Manufacturing (MFG)

MFG 105 Industrial Safety
3 credits | REEL

Quarter(s): S, F, W, Sp

Provides instruction on safety topics and practices specifically related to industrial work environments. Topics include an overview of OSHA/WISHA requirements, personal protective equipment, energy lock-out/tag-out procedures, material handling, electrical safety, machine guarding, hazardous materials, fire prevention, hazard identification and control, and safety inspection.

Prerequisite: None

MFG 110 Project Management**4 credits | REEL**

The course is an introduction to the theory of project development procedures. The concepts used for project management will include scheduling by means of the critical path method. The fundamentals of CPM will be presented and the concepts applied with software used in industry. Basic job estimating theory will be presented and applied using current industrial software.

Prerequisite: None

MFG 115 Manufacturing Process**5 credits | REEL****Quarter(s): F**

A compressive study of the processing of materials, industry standards, and the manufacturing techniques that expose students to the basic types of machine tools as well as cutting tool geometry and precision measuring.

Prerequisite: None

MFG 120 Quality Assurance**4 credits | REEL****Quarter(s): Sp**

Provides the student with a comprehensive introduction to the principles and purpose of Quality Assurance Management in industry. The student will also gain basic understanding of the quality control tools used in industry, such as standard deviation, histograms, distribution curves, etc.

Prerequisite: None.

MFG 130 Materials Science**5 credits | REEL****Quarter(s): F, W**

Material Science is a study of the nature, structure, characteristics, and properties of natural and synthetic materials used in contemporary industry. Emphasis will be placed on understanding how the structure and properties of industrial influence the selection of primary materials and their conversion into useful products.

Prerequisite: None

MFG 140 Applied Hydraulics**4 credits | REEL****Quarter(s): F**

Covers basic problems of hydraulics, fluids, power, hydraulics actuators, controls, pressures and circuits, and principles of industrial applications.

Prerequisite: None

MFG 205 Work Teams in Industry**3 credits | REEL**

Explores the interpersonal skills, group roles, team structures, problem solving techniques, and work ethics necessary for success in modern industrial organizations. Practical exercises are used to allow students to develop critical skills.

Prerequisite: None

MFG 230 Computer Integrated Manufacturing**4 credits | REEL****Quarter(s): Sp**

Introduces the student to the basic concepts of Computer Integrated Manufacturing and provides a foundation for applying those concepts in actual industrial situations. The course also introduces the student to CAD/CAM concepts and their function in the design and manufacturing process. Students will use specialized software to design parts, simulate the machining process, and observe the production of actual machine parts. Lab hours are required for this course.

Prerequisite: None

MFG 288 Cooperative Work Experience**2 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

MFG 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Math (MATH)

MATH& 107 Math in Society**5 credits | NSCI****Quarter(s): S, F, W, Sp**

Functions as a terminal course in mathematics for students whose major does not require further mathematics. The core topics of this course are logic, probability and statistics. Additional topics will be selected by the instructor. These topics could include geometry, number systems, linear programming, set theory, number theory, functions, graph theory, topology, etc.

Prerequisites: C or better in MATH 97 or MATH 98 or B or better in CCP 97 or CCP 98 C or better in BUS 104 or MATH 106

MATH& 131 Math for Elementary Educators 1**5 credits | ELEC, NSCI****Quarter(s): F, W**

Strengthens students' understanding of problem solving, operations on whole numbers, decimals and fractions, and number theory. First of a two-part series. Lab hours are required for this course.

Prerequisites: C or better in MATH 97 or MATH 98 OR B or better in CCP 97 or CCP 98

MATH& 132 Math for Elementary Educators 2**5 credits | NSCI****Quarter(s): W, Sp**

Strengthens students' understanding of the real number system, probability and statistics, geometry, measurement, functions and graphs. Second of two-part series. Lab hours are required for this course.

Prerequisites: MATH& 131 (was MATH 121) with a grade of C or better.

MATH& 141 Precalculus I**6 credits | NSCI****Quarter(s): S, F, W, Sp**

Reviews basic algebraic operations, equations, inequalities, and operations on functions. Provides the algebraic tools needed to analyze and graph polynomial, rational, exponential, and logarithmic functions. This is the first course in a two course sequence designed to prepare students for Calculus and future STEM coursework. Lab hours are required for this course.

Prerequisites: C or better in MATH 098, B or better in CCP 098, or placement

MATH& 142 Precalculus II**5 credits | NSCI****Quarter(s): S, F, W, Sp**

Covers concepts, properties, and algebra of trigonometric functions, including their graphs, inverses, law of sines and cosines, identities, and equations. Introduces polar coordinates, vector operations, and the concept of a limit. This is the second course in a two course sequence designed to prepare students for Calculus and future STEM coursework.

Prerequisites: C or better in MATH 141 or placement Co-requisite: None

MATH& 146 Introduction to Statistics**5 credits | ELEC, NSCI****Quarter(s): S, F, W, Sp**

Introduces descriptive statistics, probability, and inferential statistical methods. Topics include probability distributions, sampling techniques, measures of central tendency and dispersion, correlation, regression, and statistical inference.

Prerequisites: Minimum grade of 'C' in either MATH 97, MATH 98, or MATH 105; Minimum grade of 'B' in CCP 97 or CCP 98

MATH& 148 Business Calculus**5 credits | NSCI****Quarter(s): W, Sp**

Introduces calculus concepts needed by students of management, social science or biology, or can serve as a survey course for liberal arts majors. Course covers sets, systems of numbers, relations and functions, limits, differentiation and integration, including the definite integral, exponential and logarithmic functions and applications from various fields.

Prerequisite: MATH 125 OR MATH& 141 with a grade of C or better.

MATH& 151 Calculus I**5 credits | ELEC, NSCI****Quarter(s): F, W**

Investigates the ideas of continuity and limit, introduces the derivative as a limit, practices techniques for computing derivatives of functions, discusses the mean value theorem and its significance, utilizes these concepts to solve problems involving related rates and extreme values.

Prerequisites: MATH& 142 with a grade of C or better.

MATH& 152 Calculus II**5 credits | NSCI****Quarter(s): W, Sp**

Introduces techniques of antidifferentiation of functions including trigonometric, logarithmic, exponential, and hyperbolic functions. Applies the concept of the definite integral to solve problems involving force, work, volume, surface area, business and economics. Prerequisite: MATH& 151 with a grade of C or better.

MATH& 153 Calculus III**5 credits | NSCI****Quarter(s): S, Sp**

Focuses on infinite series, vector calculus and their applications. Incorporates the use of polar, cylindrical and spherical coordinate systems in applications of the calculus.

Prerequisite: MATH& 152 with a grade of C or better.

MATH& 254 Calculus IV**5 credits | NSCI****Quarter(s): F**

Continuation of Calculus III. Topics include partial derivatives, multiple integrals, and vector calculus.

Prerequisites: MATH& 153 with a grade of C or better.

MATH 105 Math for Health Sciences**5 credits | REEL****Quarter(s): W, Sp**

Reviews basic arithmetic skills including whole numbers, decimal numbers, fractions and percentages. Covers problem solving in the context of health sciences, which involves using formulas, solving and graphing linear equations, conversion between the metric and household systems of measurement as well as calculations needed to determine dosages. Discusses various tools and measurements used in statistics, including charts, graphs, tables, and correlation.

Prerequisites: MATH 79, 'C' or better.

MATH 106 Industrial Mathematics**5 credits | REEL****Quarter(s): F, W, Sp**

Emphasizes basic skills in applied mathematics designed to support students entering the vocational/technical work force of tomorrow. The focus is real world problem solving and numerical literacy that students carry to their specific careers. Although the use of math in the workplace is primary, emphasis is given to the critical and creative thinking process as students look to strengthen their use of arithmetic concepts, measurements, practical geometry, basic algebra and right angle trigonometry.

Prerequisite: C or better in MATH 079, B or better in CCP 79, or placement

MATH 125 Applied College Algebra**6 credits | NSCI****Quarter(s): F, W**

Covers equations and inequalities; systems of equations and inequalities; graphing linear, quadratic, polynomial, rational, exponential, and logarithmic functions; matrix operations; linear programming and simplex method; and mathematics of finance. Lab hours are required for this course.

Prerequisites: C or better in MATH 98 OR B or better in CCP 98 OR appropriate placement test score.

MATH 215 Discrete Mathematics**5 credits | ELEC, NSCI****Quarter(s): W**

Acquaints students with mathematical concepts used in computer science. Topics may include logic, induction, combinatorics, recursion, analysis of algorithms and graph theory.

Prerequisite: MATH& 142 with a grade of C or better.

MATH 220 Linear Algebra**5 credits | NSCI****Quarter(s): Sp**

Presents the theory and properties of matrices, determinants and linear transformations. Introduces vector space and the Gram-Schmidt orthonormalization process. Deals with the calculation and application of eigenvalues and eigenvectors.

Prerequisite: MATH& 152 with a grade of C or better

MATH 240 Differential Equations**5 credits | NSCI****Quarter(s): W**

Introduces techniques of solving ordinary differential equations including the elementary methods used for first order differential equations, method of undetermined coefficients and variation of parameters for higher order equations. Includes techniques of solving systems of differential equations, the method of La Place transforms and series solutions to differential equations. This may be offered as a Capstone course.

Prerequisite: MATH& 254, "C" or better.

MATH 246 Probability and Statistics**5 credits | ELEC, NSCI****Quarter(s): F, Sp**

Covers collecting and summarizing data, probability distributions, confidence intervals, testing hypotheses for one and two samples, chi-square tests, ANOVA, and regression. Emphasis will be placed on data analysis through spreadsheet applications.

Prerequisites: MATH 125 or MATH& 141 with a grade of C or better or placement.

MATH 288 Cooperative Work Experience**1-15 credits****Quarter(s): F, W, Sp**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

MATH 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

MATH 78 Pre-College Math I**3 credits****Quarter(s): S, F, W, Sp**

Covers operations on the real numbers (fractions, decimals, integers, etc.) and introduces the concepts of ratios, proportions, and percents with an emphasis on contextual learning. This is the first 3 credits of a 6 credit course designed to prepare students for either a non-STEM pathway or an algebra intensive pathway. Lab hours are required for this course.

Prerequisites: B or higher in CCP 32 Math Level B or placement test

MATH 79 Pre-College Math I**3 credits****Quarter(s): S, F, W, Sp**

Covers operations on and applications of ratios, proportions, and percents. Also includes topics in geometry and measurement with an introduction to algebraic expressions. Emphasis is placed on contextual learning. This is the second 3 credits of a 6 credit course designed to prepare students for either a non-STEM pathway or an algebra intensive pathway. Lab hours are required for this course.

Prerequisites: C or better in MATH 078 or placement test

MATH 87 Essentials of Pre-College Math II**3 credits****Quarter(s): F, W, Sp**

Provides an introduction to algebraic concepts such as algebraic expressions, linear equations, and linear functions with an emphasis on contextual learning. This is the first 3 credits of a 6 credit course designed for students who are not planning on taking a course in calculus. Lab hours are required for this course.

Prerequisites: C or better in MATH 79 or B or better in CCP 79, Placement Exam, or Instructor Permission

MATH 88 Pre-College Math II**3 credits****Quarter(s): S, F, W, Sp**

Covers solving linear equations and inequalities, an introduction to graphing, and solving systems of linear equations. Techniques and strategies for problem solving are emphasized. This is the first 3 credits of a 6 credit course designed to prepare students for algebra intensive college-level math pathways. Lab hours are required for this course.

Prerequisite: C or better in MATH 79, B or better in CCP 79, or placement
Co-requisite: None

MATH 97 Essentials of Pre-College Math III**3 credits****Quarter(s): F, W, Sp**

Provides further exploration of algebraic concepts such as linear equations, exponential functions, and an introduction to statistical concepts with an emphasis on contextual learning. This is the last 3 credits of a 6 credit course designed for students who are not planning on taking a course in calculus. Lab hours are required for this course.

Prerequisites: C or better in MATH 087 or MATH 089

MATH 98 Pre-College Math III**3 credits****Quarter(s): S, F, W, Sp**

Covers factoring, operations on polynomials and radicals, and an introduction to exponential, logarithmic, and quadratic functions. Techniques and strategies for problem solving are emphasized. This is the second 3 credits of a 6 credit course designed to prepare students for algebra intensive college-level math pathways. Lab hours are required for this course.

Prerequisites: C or better in MATH 88, C or better in MATH 87, B or better in CCP 88, or placement Co-requisite: None

Medical Assisting (MEDA)

MEDA 101 Medical Vocabulary I**3 credits | REEL****Quarter(s): F, W**

Introduces basic anatomy & physiology while providing a foundation for building a medical vocabulary including the study of prefixes, roots, suffixes, combining forms, and pronunciation. Emphasis is on using medical terms accurately in the context of healthcare employment settings. Also introduces common diseases, and concepts in disease prevention and health promotion.

Students will develop resourcefulness through the use of various tools, including a cyclopedic medical dictionary. Prerequisite: None

MEDA 102 Medical Vocabulary II**3 credits | REEL****Quarter(s): W, Sp**

Continues the focus of MEDA 101 by developing a medical vocabulary (using word documents, abbreviations, and stand-alone terms), and knowledge relating to common diseases for body systems not covered in MEDA 101.

Prerequisites: MEDA 101 or BTEC 181

MEDA 120 Survey of Human Anatomy & Physiology**5 credits | ELEC****Quarter(s): F**

Introduces students to such fundamental biological principles as the cell and metabolism, then progresses through tissues to human organ systems including respiratory, circulatory, digestive, reproductive, immune, nervous, musculoskeletal, urinary and sensory organs.

Prerequisite: ENGL 099 with a C or better or placement into ENGL& 101.

MEDA 122 Law and Ethics for the Medical Office**3 credits | REEL****Quarter(s): W**

Presents the legal, ethical, and bioethical issues relevant to medical office settings. Course features legal cases and legislation. Topics include patient confidentiality, advance directives, consents, professional liability, medical malpractice, release of information, bioethical case studies, the American Association of Medical Assistants' professional code of ethics, and specific Washington State legislation relating to Medical Assistants.

Prerequisites: ENGL& 101 or BUS 119; C or higher is required for the Medical Assisting Program. Note: This course must be completed before spring quarter of the Medical Assisting cohort year.

MEDA 145 Medical Laboratory Techniques

6 credits | REEL

Quarter(s): Sp

Enables students to develop knowledge and skills necessary to work in a healthcare provider's office laboratory. Focuses on quality control, record keeping, specimen collection - including phlebotomy- processing and disposal, urinalysis, hematology, blood chemistry, immunology, and microbiology. This course is part of the educational requirement for the Medical Assistant - Certified, according to Engrossed Substitute Senate Bill 6237 (ESSB 6237), and teaches to the scope of practice according to this law. Lab hours are required for this course.

Prerequisites: MEDA 101, MEDA 102 (or BTEC 181 and 182), MEDA 120 (or BIOL&241 and 242), MEDA 122; C or higher is required for the Medical Assisting Program. Proof of Bloodborne Pathogens Training (BBP) meeting RCW 70.24.017 and Hepatitis B vaccine series.

MEDA 161 Examining Room Procedures I

4 credits | REEL

Quarter(s): F

Provides a foundation of knowledge and basic skills for assisting a health care practitioner in a clinical setting. Requires students to perform vital signs, infection control, patient care, and sterile techniques. Explains and discusses OSHA standards for handling biohazardous materials along with first aid and medical emergencies. Lab hours are required for this course.

Prerequisites: Current enrollment in the Medical Assisting Program. AH 114 or PSYC&200, ENGL&101 or BUS 119; C or higher is required for the Medical Assisting Program. Concurrent requirements: MEDA 120 (or BIOL&241 and 242), if not already completed with a C or higher.

MEDA 162 Examining Room Procedures II

4 credits | REEL

Quarter(s): W

Builds on competencies developed in MEDA 161, necessary for assisting a health care provider in a clinical setting. Focuses on electrocardiography, specialty procedures, safety in radiography, nutrition in health and disease, and advanced patient screening techniques. Lab hours are required for this course.

Prerequisites: Current enrollment in the Medical Assisting Program. MEDA 101 or BTEC 181, MEDA 120 (or BIOL&241 and 242), MEDA 161; C or higher is required for the Medical Assisting Program.

MEDA 165 Medications in Medical Assisting & Diseases**5 credits | REEL****Quarter(s): Sp**

Explores knowledge of common diseases and pathology, including diagnostic and treatment modalities. Students will become proficient in using drug reference materials. This course is part of the educational requirement for the Medical Assistant - Certified, according to Engrossed Substitute Senate Bill 6237 (ESSB 6237), and teaches to the scope of practice according to this law. Lecture and laboratory content include administration and documentation of oral, subcutaneous, intramuscular, intradermal, ophthalmic and otic medications. Lab hours are required for this course.

Prerequisites: Current enrollment in Medical Assisting Program, or Medical Assistant Program Director permission. MATH 105 (or any college level math), MEDA 101, MEDA 102 (or BTEC 181 and 182), MEDA 120 (or BIOL&241 and 242), MEDA 122; C or higher is required for the Medical Assisting Program.

MEDA 190 Medical Assisting Preceptorship**6 credits | REEL****Quarter(s): S**

Provides students the opportunity to apply learned skills and knowledge to a practical experience. Students are assigned to clinics and healthcare provider offices where they rotate to different tasks, building from the simpler to the more complex, under the supervision of a facility-appointed preceptor.

Prerequisite: Current enrollment in Medical Assisting Program, or Medical Assistant Program Director permission. MEDA 145 and MEDA 165; C or higher is required for the Medical Assisting Program. Concurrent requirements: Enrollment in MEDA 195.

MEDA 195 Medical Assisting Seminar**1 credit | REEL****Quarter(s): S**

Brings together students currently in preceptorships to discuss issues as they arise in the workplace. Provides an opportunity to introduce advanced topics in medical assisting or healthcare, as well as job seeking. Topics will include: resume writing and interviewing techniques.

Prerequisites: Current enrollment in Medical Assisting Program, or Medical Assistant Program Director permission. Completion of previous MEDA courses and program requirements; C or higher is required for the Medical Assistant Program. Concurrent requirements: Enrollment in MEDA 190.

MEDA 205 Certification Review for Medical Assisting**2 credits | REEL****Quarter(s): S**

Provides information to prepare for the Certified Medical Assistant (CMA) exam offered by the American Association of Medical Assistants (AAMA). Includes a review of anatomy, medical terminology, psychology, ethics, and pharmacology, as well as additional topics in clinical and administrative medical assisting.

Prerequisites: None

MEDA 288 Cooperative Work Experience**1-15 credits****Quarter(s): S, F, W, Sp**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

MEDA 298 Special Topics in Medical Assisting**1 credit | REEL****Quarter(s): F, W**

Augments previous academic learning in medical law & ethics. Topics include Washington law for medical assistants and medical board specialties.

Prerequisites: BTEC 164 or similar

MEDA 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Music (MUSC)**MUSC& 105 Music Appreciation****5 credits | ELEC, HUM****Quarter(s): S, F, W, Sp**

Examines the development of Western European music throughout history, beginning with the Fall of the Roman Empire through present day. Students will become acquainted with the musical characteristics/styles, composers and music linked to each of the historical time periods, and explore the evolution of music through such elements.

This course will transfer to four-year institutions as a Humanities or Elective.

Prerequisites: None.

MUSC& 141 Music Theory I**5 credits | ELEC, HUM****Quarter(s): F**

Introduces the discipline of music theory. Focuses on the fundamentals of musical notation such as pitches, clefs, accidentals, rhythmic values, key signatures, time signatures, and dynamic markings. Introduces intervals, transposition, triads and their inversions, Roman numeral analysis, macro analysis, figured bass notation, cadences, and elements of melodic organization.

Prerequisites: The ability to read music and/or play an instrument
Co-requisite: MUSC 111 (Ear Training I)

MUSC& 142 Music Theory II**5 credits | HUM, ELEC****Quarter(s): W**

Continues studies in the discipline of music theory. Focuses on musical texture and textural reduction, species counterpoint, voice leading in the 4-part chorale, harmonic progressions, harmonic rhythm, and the dominant 7th chord.

Prerequisites: MUSC& 141 Co-requisites: MUSC 112 (Ear Training II)

MUSC& 143 Music Theory III**5 credits | ELEC, HUM****Quarter(s): Sp**

Further studies in the discipline of music theory. Focuses on leading-tone 7th chords, non-dominant 7th chords, secondary dominant and secondary leading-tone chords, modulation, basic two-part (binary) form, and basic three part (ternary) form.

Prerequisites: MUSC& 142 Co-requisites: MUSC 113 (Ear Training III)

MUSC& 241 Music Theory IV**5 credits | HUM****Quarter(s): F**

In continuation of a six-quarter music theory sequence, this course expands upon concepts covered in prior quarters. Students will strengthen their knowledge of secondary dominants, leading-tone chords, modulation, and binary and ternary forms. Students will be introduced to increasingly chromatic pre-dominant chords, including modal mixture chords, neapolitan, and augmented 6th chords.

Prerequisites: Passing grade in MUSC& 143 (was MUSC 103), or instructor permission

MUSC& 242 Music Theory V**5 credits | HUM****Quarter(s): W**

In continuation of a six-quarter music theory sequence, this course expands upon concepts covered in prior quarters, including chromatic harmony, chromatic melodies, phrase structure, harmonic and structural analysis, and the role of these in the development of musical style. Students will gain mastery of standard Roman Numeral analysis through further understanding of chords such as neapolitan, augmented sixth, secondary dominants, and further chromatic harmonies. This course introduces several new musical forms, including Sonata, Rondo, Concerto, vocal forms, and popular music forms. Students will be introduced to aspects of form including primary, secondary, and closing theme groups, transitional material, and typical characteristics of exposition and development.

Prerequisites: Passing grade in MUSC& 241, or instructor permission

MUSC& 243 Music Theory VI**5 credits | HUM****Quarter(s): Sp**

This course uses skills acquired over the prior five quarters to address post-tonal and popular music topics. Students will apply existing knowledge of harmonic analysis to popular traditions including jazz, blues, and contemporary popular music. This course introduces techniques for analysis and comprehension of post-tonal Western music, including pitch-set and pitch-class analysis, set ordering, and other post-tonal theoretical devices. Prerequisites: Passing grade in MUSC& 242, or instructor permission

MUSC 100 Fundamentals of Music**5 credits | HUM****Quarter(s): S, F, W, Sp**

Introduces the language of music through performance, music reading, and music writing. Introduces basic keyboard and guitar skills. No prior musical background, skills, or prerequisites are required. Enrolled students may check out a guitar and a portable keyboard from the LCC Library.

Prerequisite: None

MUSC 106 Keyboard Skills I**1 credit | ELEC, HUM****Quarter(s): F, W, Sp**

Introduces basic piano skills in a lab setting comprising group instruction, one-on-one instruction, individual practice, and performance. 'Keyboard skills' courses are intended for music majors, while 'Group Piano Instruction' is intended for non-majors. Lab hours are required for this course.

Prerequisite: None

MUSC 107 Keyboard Skills II**1 credit | ELEC, HUM****Quarter(s): F, W, Sp**

Reinforces basic piano skills in a lab setting comprising group instruction, one-on-one instruction, individual practice, and performance. 'Keyboard skills' courses are intended for music majors, while 'Group Piano Instruction' is intended for non-majors. Lab hours are required for this course.

Prerequisite: MUSC 106

MUSC 108 Keyboard Skills III**1 credit | ELEC, HUM****Quarter(s): F, W, Sp**

Further reinforces basic piano skills in a lab setting comprising group instruction, one-on-one instruction, individual practice, and performance. 'Keyboard skills' courses are intended for music majors, while 'Group Piano Instruction' is intended for non-majors. Lab hours are required for this course.

Prerequisite: MUSC 107

MUSC 111 Ear Training I**1 credit | ELEC, PERF****Quarter(s): F**

Introduces the major solfege system and the art of sight singing in general, focusing on step-wise melodies with simple meters in major keys. Introduces the art of music dictation, or the ability to notate music upon hearing it, by focusing on intervals (pitch pairs), as well as rhythms and melodies in simple meters. Prerequisite: The ability to read music and play an instrument and/or sing Co-requisite: MUSC& 141

MUSC 112 Ear Training II**1 credit | ELEC, PERF****Quarter(s): W**

Reinforces the major solfege system and introduces sight singing melodies with skips on the tonic triad in compound meters. Broadens music dictation skills by focusing on increasingly wider intervals (pitch pairs), as well as more complex melodies and rhythms in simple meter with beamed 8th notes and dotted notes.

Prerequisite: MUSC 111 Concurrent requirement: MUSC& 142

MUSC 113 Ear Training III**1 credit | ELEC, PERF****Quarter(s): Sp**

Introduces the minor solfege system and explores sight singing melodies with skips on the dominant triad in a variety of meters. Explores increasingly advanced music dictation by focusing on sets of intervals (pitch groups) and the notation of rhythms and melodies in compound meters with beamed 8th and 16th notes. Prerequisite: MUSC 112 Concurrent requirement: MUSC& 143

MUSC 115 Group Piano Instruction**2 credits | ELEC, HUM, PERF****Quarter(s): F, W, Sp**

Introduces the skills of piano performance and music reading in a lab setting comprising group instruction, one-on-one instruction, individual practice, and performance. No prior musical background, skills, or prerequisites are required. 'Keyboard Skills' courses are intended for music majors, while 'Group Piano Instruction' is intended for non-majors. Lab hours are required for this course.

Prerequisite: None

MUSC 121 Concert Choir I**2 credits | ELEC, HUM, PERF****Quarter(s): F**

Introduces students to the fundamental techniques and principles of integrating voice and music in an ensemble setting. Students will perform music in a variety of languages, from various genres, eras and styles, ranging from Masterworks to Musical Theatre. Ensemble will perform a minimum of 1 concert per quarter, and all performances are mandatory. Lab hours are required for this course.

Prerequisites: Instructor permission.

MUSC 122 Concert Choir II**2 credits | ELEC, HUM, PERF****Quarter(s): W**

Identifies fundamental techniques and principles of integrating voice and music in an ensemble setting. Students will perform music in a variety of languages, from various genres, eras and styles, ranging from Masterworks to Musical Theatre. Ensemble will perform a minimum of 1 concert per quarter, and all performances are mandatory. This course will transfer to four year institutions as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: None

MUSC 123 Concert Choir III**2 credits | ELEC, HUM, PERF****Quarter(s): Sp**

Explores fundamental techniques and principles of integrating voice and music in an ensemble setting. Students will perform music in a variety of languages, from various genres, eras and styles, ranging from Masterworks to Musical Theatre. Ensemble will perform a minimum of 1 concert per quarter, and all performances are mandatory. This course will transfer to four year institutions as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: None

MUSC 130 Jazz Ensemble**2 credits | HUM, PERF****Quarter(s): F, W, Sp**

Preparation and performance of literature from the jazz idiom appropriate from small to large jazz ensemble for required on and off campus concerts. Jazz literature from the swing era to the present will include bebop, rock, funk, fusion and blues. Prior knowledge of jazz improvisation not required. Open to trumpet, trombone, all saxophone, drum, bass, and guitar players with strong musical skills and good music reading abilities. This course may be repeated for credit up to seven quarters.

Prerequisite: Audition or approval by instructor.

MUSC 131 Beginning Guitar**2 credits | ELEC, HUM, PERF****Quarter(s): S, F, W, Sp**

Basic chord progressions, strumming and picking patterns, playing popular songs, and reading music on the guitar are introduced. Students will perform with the class and in a duo with a class member.

Prerequisite: None

MUSC 132 Intermediate Guitar**2 credits | ELEC, HUM, PERF****Quarter(s): F, W, Sp**

Builds on the musical rudiments learned in Beginning Guitar which include melody, rhythm, notes, scales, intervals, chords and exercises in improvisation for those who want to move beyond their basic guitar skills. Students will perform with the class and in a duo with a class member.

Prerequisite: MUSC 131 or instructor permission.

MUSC 133 Advanced Guitar**2 credits | ELEC, HUM, PERF****Quarter(s): F, W, Sp**

Builds on the skills learned in Intermediate Guitar which include more advanced melody, rhythm, notes, scales, intervals, chords and exercises in improvisation for those who want to develop guitar skills beyond an intermediate level. Students will perform with the class and in a duo with a class member.

Prerequisite: MUSC 132 or instructor permission.

MUSC 135 Orchestra**2 credits | HUM, PERF****Quarter(s): F, W, Sp**

Offers participation in the Southwest Washington Symphony, a student/community orchestra, which rehearses and performs standard symphonic literature. Admission is by audition. The course may be repeated for credit up to seven quarters. Lab hours are required for this course.

Prerequisite: Instructor Permission

MUSC 145 Beginning Voice**2 credits | ELEC, HUM**

Introduces the art of singing, with focus on the development of healthy, efficient vocal production (breath support, vowel alignment, range extension, tone color), diction, song interpretation and performance etiquette. Students will become familiar with the structure and mechanics of the voice through study, discussion, practice and solo performances. Provides students with the skills needed to prepare and perform vocal literature.

Prerequisite: None

MUSC 150 Symphonic Band
2 credits | ELEC, HUM, PERF
Quarter(s): F, W, Sp

Rehearsal and performance of symphonic band literature. Participants receive weekly instruction in musicianship and large ensemble performance. Activities of this course may include performance in concerts, commencement, other campus events, and events in the community. Course may be repeated up to seven times for credit.

Prerequisites: None

MUSC 151 Bella Voce Choir I
2 credits | ELEC, HUM, PERF
Quarter(s): F

Introduces the fundamental techniques and principles of integrating voice, music and showmanship in small performance choir. Students will memorize and perform music from a variety of styles ranging from Broadway & Contemporary to Jazz & Classical music with an emphasis on a capella repertoire. The course will occasionally employ some choreography, blocking, and/or staging. Ensembles perform a minimum of 1 concert per quarter, as well as various community outreach performances. All performances are mandatory. This course will transfer to four year institutions as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: None

MUSC 152 Bella Voce Choir II
2 credits | ELEC, HUM, PERF
Quarter(s): W

Identifies fundamental techniques and principles of integrating voice, music and showmanship in small performance choir. Students will memorize and perform music from a variety of styles ranging from Broadway & Contemporary to Jazz & Classical music with an emphasis on a capella repertoire. The course will occasionally employ some choreography, blocking, and/or staging. Ensembles perform a minimum of 1 concert per quarter, as well as various community outreach performances. All performances are mandatory. This course will transfer to four year institutions as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: None

MUSC 153 Bella Voce Choir III
2 credits | ELEC, HUM, PERF
Quarter(s): Sp

Explores fundamental techniques and principles of integrating voice, music and showmanship in small performance choir. Students will memorize and perform music from a variety of styles ranging from Broadway & Contemporary to Jazz & Classical music with an emphasis on a capella repertoire. The course will occasionally employ some choreography, blocking, and/or staging. Ensembles perform a minimum of 1 concert per quarter, as well as various community outreach performances. All performances are mandatory. This course will transfer to four year institutions as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: None

MUSC 176 Individual Instruction I**1 credit | ELEC, HUM, PERF****Quarter(s): F, W, Sp**

Provides instrumental / vocal / composition instruction to acquire and refine musical techniques using skill level appropriate repertoire and materials.

Prerequisite: None

MUSC 177 Individual Instruction II**1 credit | ELEC, HUM, PERF****Quarter(s): F, W, Sp**

Provides instrumental / vocal / composition instruction to acquire and refine musical techniques using skill level appropriate repertoire and materials.

Prerequisite: MUSC 176

MUSC 178 Individual Instruction III**1 credit | ELEC, HUM, PERF****Quarter(s): F, W, Sp**

Provides instrumental / vocal / composition instruction to acquire and refine musical techniques using developmentally appropriate repertoire and materials.

Prerequisite: MUSC 177

MUSC 221 Concert Choir IV**2 credits | ELEC, HUM, PERF****Quarter(s): F**

Demonstrates fundamental techniques and principles of integrating voice and music in an ensemble setting. Students will perform music in a variety of languages, from various genres, eras and styles, ranging from Masterworks to Musical Theatre. Ensemble will perform a minimum of 1 concert per quarter, and all performances are mandatory. This course will transfer to four year institutions as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: None

MUSC 222 Concert Choir V**2 credits | ELEC, HUM, PERF****Quarter(s): W**

Examines fundamental techniques and principles of integrating voice and music in an ensemble setting. Students will perform music in a variety of languages, from various genres, eras and styles, ranging from Masterworks to Musical Theatre. Ensemble will perform a minimum of 1 concert per quarter, and all performances are mandatory. This course will transfer to four year institutions as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: None

MUSC 223 Concert Choir VI**2 credits | ELEC, HUM, PERF****Quarter(s): Sp**

Refines fundamental techniques and principles of integrating voice and music in an ensemble setting. Students will perform music in a variety of languages, from various genres, eras and styles, ranging from Masterworks to Musical Theatre. Ensemble will perform a minimum of 1 concert per quarter, and all performances are mandatory. This course will transfer to four year institutions as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: None

MUSC 251 Bella Voce Choir IV
2 credits | ELEC, HUM, PERF
Quarter(s): F

Introduces the fundamental techniques and principles of integrating voice, music and showmanship in small performance choir. Students will memorize and perform music from a variety of styles ranging from Broadway & Contemporary to Jazz & Classical music with an emphasis on a capella repertoire. The course will occasionally employ some choreography, blocking, and/or staging. Ensembles perform a minimum of 1 concert per quarter, as well as various community outreach performances. All performances are mandatory. This course will transfer to four year institutions as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: None

MUSC 252 Bella Voce Choir V
2 credits | ELEC, HUM, PERF
Quarter(s): W

Introduces the fundamental techniques and principles of integrating voice, music and showmanship in small performance choir. Students will memorize and perform music from a variety of styles ranging from Broadway & Contemporary to Jazz & Classical music with an emphasis on a capella repertoire. The course will occasionally employ some choreography, blocking, and/or staging. Ensembles perform a minimum of 1 concert per quarter, as well as various community outreach performances. All performances are mandatory. This course will transfer to four-year institutions as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: None

MUSC 253 Bella Voce Choir VI
2 credits | ELEC, HUM, PERF
Quarter(s): Sp

Refines fundamental techniques and principles of integrating voice, music and showmanship in small performance choir. Students will memorize and perform music from a variety of styles ranging from Broadway & Contemporary to Jazz & Classical music with an emphasis on a capella repertoire. The course will occasionally employ some choreography, blocking, and/or staging. Ensembles perform a minimum of 1 concert per quarter, as well as various community outreach performances. All performances are mandatory. This course will transfer to four-year institutions as an Elective or a Humanities credit. Lab hours are required for this course.

Prerequisites: None

MUSC 276 Individual Instruction IV
1 credit | HUM, ELEC, PERF
Quarter(s): F, W, Sp

Provides instrumental / vocal / composition instruction to acquire and refine musical techniques using developmentally appropriate repertoire and materials.

Prerequisite: MUSC 178

MUSC 277 Individual Instruction V
1 credit | ELEC, HUM, PERF
Quarter(s): F, W, Sp

Provides instrumental / vocal / composition instruction to acquire and refine musical techniques using developmentally appropriate repertoire and materials.

Prerequisite: MUSC 276

MUSC 278 Individual Instruction VI**1 credit | ELEC, HUM, PERF****Quarter(s): F, W, Sp**

Provides instrumental / vocal / composition instruction to acquire and refine musical techniques using developmentally appropriate repertoire and materials.

Prerequisite: MUSC 277

MUSC 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Nursing (NURS)

NURS 150 Pharmacology for Nursing I**2 credits | REEL****Quarter(s): F, W, Sp**

Introduces basic principles of pharmacology and therapeutic modalities. Provides an overview of drug classifications and prototypes.

Prerequisite: Admission to the nursing program
Concurrent requirement: NURS 151 or nursing program director approval**NURS 151 Nursing Concepts in Health and Illness I****3 credits | REEL****Quarter(s): F, W, Sp**

Presents concepts that form the foundation of nursing practice and the roles of provider of care, manager of care, and member of the profession. Topics include: the nursing process, concepts of health and wellness, oxygenation, fluid and electrolyte balance, elimination, the integumentary system, comfort measures, and palliative care.

Prerequisites: NURS 090 or equivalent and certification as a nursing assistant in WA or OR and admission to the nursing program. NURS 090 must be completed with a 'C' or above. Co-requisites: NURS 161

NURS 152 Nursing Concepts in Health and Illness II**5 credits | REEL****Quarter(s): F, W, Sp**

Builds upon foundational nursing knowledge and concepts. Focuses on health promotion and comprehensive care of clients with chronic illness. Promotes decision making and critical thinking in the nursing roles of provider of care, manager of care and member of the profession. Topics include cancer, the endocrine, respiratory, cardiovascular, musculoskeletal and gastrointestinal systems.

Prerequisites: NURS 150 and NURS 151 with a 'C' or higher
Co-requisite: NURS 162

NURS 153 Nursing Concepts in Health and Illness III**5 credits | REEL****Quarter(s): F, W, Sp**

Presents additional nursing knowledge and concepts focusing on comprehensive care of adults with chronic illness. Expands upon decision making and critical thinking. Further develops the nursing roles of provider of care, manager of care and member of the profession. Topics include perioperative care, and the genitourinary, reproductive, hematologic, neurologic, and sensory systems.

Prerequisites: NURS 152 with a 'C' or higher Co-requisite: NURS 163

NURS 160 Skills In Nursing**2 credits | REEL****Quarter(s): F, W, Sp**

Introduces skills and the associated concepts for the provision of safe, effective nursing care. Topics include vital signs, physical assessment, sterile technique, wound care, blood glucose monitoring, medication administration, dosage calculation, injections, nasogastric tubes, urinary catheters, and care of tracheostomies. Lab hours are required for this course. Prerequisites: Admission to the nursing program Co-requisite: NURS 161

NURS 161 Nursing Practicum I**3 credits | REEL****Quarter(s): F, W, Sp**

Provides opportunities to perform beginning nursing care in the roles of provider of care, manager of care and member of the profession. Focuses on care of the client in skilled care and community settings. Lab hours are required for this course.

Prerequisites: Admission to the nursing program. Co-requisites: NURS 151

NURS 162 Nursing Practicum II**5 credits | REEL****Quarter(s): F, W, Sp**

Provides additional opportunities to perform nursing care in the roles of provider of care, manager of care and member of the profession. Focuses on care of the client in skilled care facilities and additional community settings. Lab hours are required for this course.

Prerequisites: NURS 161 and NURS 160 with a grade of 'Pass'. Co-requisite: NURS 152

NURS 163 Nursing Practicum III**5 credits | REEL****Quarter(s): F, W, Sp**

Continues to build upon previous experiences. Provides opportunities to perform nursing care in the roles of provider of care, manager of care and member of the profession, in the acute care and community settings, with increasing skill and independence. Lab hours are required for this course.

Prerequisites: NURS 162 with a grade of 'Pass' Co-requisite: NURS 153

NURS 209 Nursing Success**2 credits | REEL****Quarter(s): F, W, Sp**

Strengthens nursing skills and knowledge to promote success in upper level nursing courses. Reviews selected nursing skills, care planning, dosage calculations, legal concepts and professional issues. Familiarizes the student with LCC Nursing Program policies and clinical requirements, including the clinical setting. Lab hours are required for this course.

Prerequisite: Formal acceptance into the campus-based 2nd year of LCC nursing program. Instructor permission required for enrollment.

NURS 242 Nursing Throughout the Lifespan**5 credits | REEL****Quarter(s): F**

Builds on previous nursing knowledge to present concepts essential to the provision and management of nursing care of patients throughout the lifespan. Topics include; nursing process and plan of care, cultural influences on health, assessment, patient teaching, growth and development, care of the family. Reviews the nursing care of the pregnant and postpartum patient. Discusses strategies to achieve optimal health for patients of all ages.

Prerequisites: Enrollment in LPN2RN Program

NURS 244 Comprehensive Medical Surgical Nursing I**5 credits | REEL****Quarter(s): W**

Using a body systems approach, explores the etiology, pathophysiology, diagnostic and laboratory studies, health promotion, health assessment, pharmacologic interventions, and nursing management essential to safe and effective nursing care of patients with various health challenges. Topics include nursing management of patients with disorders of the respiratory, cardiovascular, vascular/lymphatic, neurological, urinary/renal, hepatobiliary/pancreatic, and gastrointestinal systems, as well as acid-base/fluid-electrolyte balance.

Prerequisites: NURS 242 with a grade of C or higher or concurrent enrollment.

NURS 245 Comprehensive Medical Surgical Nursing II**5 credits | REEL****Quarter(s): Sp**

Using a body systems approach, continues to explore the etiology, pathophysiology, diagnostic and laboratory studies, health promotion, health assessment, pharmacologic interventions, and nursing management essential to safe and effective nursing care of patients with various health challenges. Topics include nursing management of patients with disorders of the musculoskeletal, dermatologic, immune, metabolic/endocrine, hematologic, reproductive, visual/auditory systems, and cancer.

Prerequisite: NURS 244 with a grade of C or higher.

NURS 246 Skills Lab**2 credits | REEL****Quarter(s): Sp**

Provides opportunities to develop and enhance proficiency in nursing skills essential to safe and effective nursing practice as provider of care, manager of care, and member of the discipline of nursing, at the beginning registered nurse level. Lab hours are required for this course.

Prerequisite: NURS 244 with a C or higher Co-requisite: NURS 245

NURS 247 Clinical Practicum**8-10 credits | REEL****Quarter(s): S**

Provides advanced opportunities to apply knowledge and concepts learned in previous courses. Expands critical thinking and increases skill in the performance of nursing care as provider of care, manager of care, and member of the discipline of nursing at the beginning registered nurse level. Expands knowledge of nurse delegation. Community and acute care settings are utilized. Lab hours are required for this course. Lab hours are required for this course.

Prerequisite: NURS 246

NURS 248 Advanced Clinical Practicum**5 credits | REEL****Quarter(s): S**

Prepares students for autonomous nursing practice by providing opportunities to perform nursing care under the guidance of a registered nurse preceptor, integrating previous knowledge, skills, and experience. Reinforces critical thinking, decision making, and performance of nursing skills in the beginning registered nurse roles of provider of care, manager of care and member of the profession.

Prerequisites: NURS 247 or concurrent enrollment

NURS 250 Pharmacology for Nursing II**1 credit | REEL****Quarter(s): F, W, Sp**

Builds upon principles of pharmacology, therapeutic modalities, and dosage calculation with a focus on selected client populations.

Prerequisites: NURS 150 and NURS 153 with a 'C' or higher. Co-requisite: NURS 251

NURS 251 Nursing Concepts In Health and Illness IV**4 credits | REEL****Quarter(s): F, W, Sp**

Explores nursing knowledge and concepts focusing on comprehensive nursing care of clients in the roles of provider of care, manager of care and member of the profession. Further expands upon decision making and critical thinking. Topics include maternal-child nursing, growth and development, and health promotion. The cardiac system and the associated nursing care of selected clients is also discussed.

Prerequisites: NURS 153 with a 'C' or higher or Nursing Program Director permission Co-requisite: NURS 261

NURS 252 Nursing Concepts in Health and Illness V**5 credits | REEL****Quarter(s): F, W, Sp**

Further develops nursing knowledge and concepts focusing on comprehensive care of clients with acute and complex health issues in preparation for the nursing roles of provider of care, manager of care and member of the profession. Topics include care of the client with respiratory, genitourinary, hematological and gastrointestinal health disorders.

Prerequisites: NURS 251 with a grade of 'C' or higher Co-requisite: NURS 262

NURS 253 Nursing Concepts in Health and Illness VI**5 credits | REEL****Quarter(s): F, W, Sp**

Expands on knowledge gained in previous courses. Focuses on providing comprehensive nursing care for clients with complex health care needs. Topics include endocrine disorders, burns, trauma, shock, neurological disorders and disaster preparedness.

Prerequisites: NURS 252 with a 'C' or higher. Concurrent requirements: NURS 263

NURS 261 Nursing Practicum IV**5 credits | REEL****Quarter(s): F, W, Sp**

Expands the opportunities to perform nursing in the roles of provider of care, manager of care and member of the profession. Introducing care of maternal-child clients. Builds on previous knowledge and skills to provide further experience in acute care of the adult with increasingly complex health concerns. Lab hours are required for this course.

Prerequisites: Complete NURS 163 with a grade of 'Pass', OR concurrent enrollment in NURS 209 Concurrent requirements: NURS 251

NURS 262 Nursing Practicum V**5 credits | REEL****Quarter(s): F, W, Sp**

Builds upon previous knowledge, skills, and experiences and provides additional opportunities to perform nursing in the roles of provider of care, manager of care and member of the profession.

Provides experience with clients experiencing increasingly complex alterations in health. Includes acute care and community settings. Lab hours are required for this course.

Prerequisites: NURS 261 with a grade of 'Pass' Concurrent requirements: NURS 252

NURS 263 Nursing Practicum VI**5 credits | REEL****Quarter(s): F, W, Sp**

Prepares students for autonomous nursing practice by providing opportunities to perform nursing care under the guidance of a registered nurse preceptor, integrating previous knowledge, skills, and experience.

Reinforces critical thinking, decision making, and performance of nursing skills in the beginning registered nurse roles of provider of care, manager of care and member of the profession.

Prerequisite: NURS 262 with a grade of 'pass' Concurrent requirement: NURS 253

NURS 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
 Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

NURS 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisites: By instructor permission only.

NURS 400 Quality, Safety, and Equity in Nursing Practice**5 credits | REEL****Quarter(s): S, F**

Explores the conceptual foundations of healthcare quality and safety. Examines cultural humility and culturally sensitive nursing care. Explores the ways that implicit bias, structural racism, and social and ecological determinants impact health and healthcare in vulnerable and disadvantaged populations. Analyzes personal cultural experiences and how those experiences shape identity and healthcare core values. Prerequisite: Admission to the RN to BSN Program

NURS 405 Research and Evidence-Based Nursing Practice**5 credits | REEL****Quarter(s): F**

Explores the nature of inquiry, basic research concepts, language and processes. Focuses on research contributions for developing knowledge, improving quality of care, reducing risk, and enhancing professional development and accountability. Accessing, critiquing, and utilizing quantitative, qualitative, and mixed methods to make informed clinical decisions are introduced. Explores ethical and legal rights of human subjects and equitable research practices. Prerequisite: Admission to the RN to BSN Program

NURS 410 Community and Public Health Nursing**5 credits | REEL****Quarter(s): F**

Investigates the principles, theories, and concepts of community and public health utilized to provide culturally sensitive and population-centered nursing care. Includes levels of disease prevention, principles of epidemiology, community assessment, environmental health, and disaster preparedness. Emphasizes equitable health promotion, risk reduction, and disease management across the lifespan within the context of individuals, families, aggregate populations, and community systems on a local to global scale. Prerequisite: Admission to the RN to BSN program

NURS 415 Leadership for Organizational Change

5 credits | REEL

Quarter(s): W

Investigates the changing role of the professional nurse as leader in complex and diverse healthcare settings. Applies leadership theories and methods, skills, and decision-making to implement high quality nursing care, healthcare team coordination, and oversight and accountability for care in a variety of settings. Emphasizes critical thinking, team building, interprofessional communication, priority setting, collaborative decision making, and advocacy in facilitating system change. Prerequisite: Admission to the RN to BSN program

NURS 420 Health Information Technology in Nursing

5 credits | REEL

Quarter(s): Sp

Explores the structure and relationship between healthcare delivery systems, organizational compliance, and promoting interoperability in various nursing practice settings. Emphasizes use of information management and client care technologies used to deliver safe and effective care to diverse client populations in a variety of settings. Investigates effects of emerging technologies on equity and accessibility of healthcare services. Prerequisites: Admission to the RN to BSN program and NURS 405 with a C or higher

NURS 430 Nursing Community Care Field Experience

5 credits | REEL

Quarter(s): Sp

Facilitates transition from student role to scholar-BSN. Applies concepts of scholarly inquiry, health promotion, leadership, and change management in a community practicum experience culminating in a population-centered quality improvement or systems change project. Note: 3:1 contact hours for field experience.

Prerequisites: Admission to the RN to BSN program, NURS 410 with a C or higher and NURS 415 with a C or higher

NURS 435 Historical and Theoretical Influences on Current Nursing Practice

5 credits | REEL

Quarter(s): S, Sp

Introduces milestones and major health theories that have historically influenced nursing practice. Examines foundational concepts and principles of selected theories to develop a personal philosophy of nursing. Explores theoretical and philosophical influences on current nursing practice.

Prerequisite: Admission to the RN to BSN program

NURS 440 Current Trends in Healthcare Policy

5 credits | REEL

Quarter(s): W

Investigates current trends in health care policy at the local, state and federal level as well as their impacts on the delivery of care and client outcomes. Examines legislative and regulatory processes pertaining to the nursing profession. Explores nursing role in legislative and policy-forming processes.

Prerequisite: Admission to the RN to BSN program

NURS 90 Nursing Assistant**7 credits | REEL****Quarter(s): S, F, W, Sp**

Provides the content and experiences for students to achieve mastery of the state-defined competencies required to assist in giving basic nursing care to residents/clients under the supervision of a licensed nurse. Upon completion of this course, students will be eligible to register for WA state competency exams to obtain their Nursing Assistant Certified licensure. Lab hours are required for this course.

Prerequisites: None.

Nutrition (NUTR)**NUTR& 101 Nutrition****5 credits | NSCI****Quarter(s): S, F, W, Sp**

Develops an understanding of the importance of the science of nutrition and dietary recommendations to maintenance of a healthy life. Students will learn the principles of nutrition as they apply to macro-nutrients and metabolic pathways. Application of vitamins, minerals, and special nutritional requirements at different stages of the life cycle, as well as current issues in nutrition will be considered. This course does not include a lab.

Prerequisite: None

NUTR 298 Special Topics in Nutrition**1-2 credits | NSCI****Quarter(s): F, Sp**

Discusses selected advanced topics in nutrition. Students will have a variety of nutrition related areas to research and/or explore.

Prerequisite: By instructor permission only.

NUTR 299 Independent Study**1-5 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisite: By Instructor Permission only.

Oceanography (OCEA)**OCEA& 101 Intro to Oceanography****5 credits | NSL****Quarter(s): S, F, W, Sp**

Emphasizes principles and processes governing the ocean and its interactions with the surrounding physical environment. Covers topics from physical, chemical, biological and geological oceanography, including origin and evolution of the ocean basins, seafloor sediments, seawater, currents, waves, tides, marine life, and human impacts. Laboratory involves use of globes, charts, and graphs, sediment and biological samples. A field trip may be required. Lab hours are required for this course.

Prerequisite: None.

Organizational Leadership and Technical Management (OLTM)

OLTM 300 Foundations of Leadership

5 credits | SOCS

Quarter(s): F

Introduces students to the study of leadership. Through discussion, lecture, research, readings, and activities, students will explore principles of leadership including leadership theory, leadership within groups, ethics in leadership, barriers to leadership, especially concerning women, minorities and immigration and several different leadership models including relational leadership, servant leadership and adaptive leadership. Students will investigate communication methods used by leaders in organizations, both positive and negative, and will be exposed to theories of organizational behavior as well as a variety of strategies useful to successful leadership. The various components of the course are intended to challenge students to think critically and imaginatively about the foundations of leadership and organizational culture. Students will be responsible for crafting their own model of leadership that reflects the material covered in the course.

Prerequisites: None

OLTM 320 Workplace and Environmental Safety

5 credits | ELEC

Quarter(s): W

Develops student understanding of the 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 and execution, increasing leadership/ organizational participation, stakeholder involvement, and performance assessment for continuous improvement will be covered.

Prerequisites: None

OLTM 325 Transformative Leadership and Decision Making**5 credits | ELEC****Quarter(s): W**

Introduces the theory and practice of transformative leadership and decision making. Students will compare transactional and transformational leadership by examining the dynamics of transformation and how leadership can facilitate it within individuals and organizations. Students will develop skills in ethical communication and decision-making, investigate a variety of frameworks for ethical decision making and select and describe rationale for a specific approach based on a given situation. Students will explore and critique their own ideas of leadership and how they relate to real-world scenarios. During this process, students will discover new ideas about leadership, how to consider multiple moral perspectives within a global context, refine their individual leadership philosophy and develop a leadership growth plan.

Prerequisites: None

OLTM 329 Foundations of Business Practices and Emerging Technologies**5 credits | ELEC****Quarter(s): W**

Examines the impact of digital technologies on business processes and individual leadership roles in various organizations and professional-technical fields. Students will explore 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 converging 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.

Prerequisites: None

OLTM 330 Entrepreneurship**5 credits | ELEC****Quarter(s): Sp**

Provides students with an overview of the multiple elements associated with starting, operating, and growing a small business. A wide range of fundamental concepts will be covered, including: identifying needs of the marketplace, researching and assessing market opportunities, identifying and analyzing risk, creating a value proposition, designing an introductory marketing platform, obtaining financing, cash flow strategies, and relevant best practices. An introduction into the problem-solving process will be explored utilizing a variety of creative problem-solving approaches along with human centered design thinking. This course will also provide students the opportunity to understand, harness and develop their own passions, skills, insights, creativity, and experiences to evaluate and take advantage of current opportunities.
Prerequisites: None

OLTM 335 Developing and Leading High-Performance Teams**5 credits | ELEC****Quarter(s): Sp**

Provides fundamental concepts, theories, and techniques for guiding work teams to achieve organizational outcomes and maximize human potential. Students will examine current challenges and issues confronting leaders and managers in technical organizations and explore the benefits of diverse teams. Students will learn to identify positive team management strategies to deal with conflict and capitalize on ideas and capabilities to build and sustain high performance teams.
Prerequisites: None

OLTM 440 Ethics and Leadership: Leading and Managing in a Diverse Society: DIV**5 credits | DIV, HUM****Quarter(s): F**

Advances knowledge of diverse cultures, cross-cultural communication, the dynamics of privilege and oppression, and the uses of power between groups. To develop cultural competency, leaders need to know themselves, others, the relevant issues, and have an appreciation and curiosity for working with others. Students will connect global leadership concepts to practice and engage in several activities, discussions, and self-assessment instruments to increase their self-awareness of leadership styles, abilities, strengths, and limitations. Students will evaluate the differences between possessing authority and exercising leadership along with differentiating between ethical actions in relation to the greatest good, individual rights, justice, and/or the common good or identifying how virtue may influence decision making.
Prerequisites: None

OLTM 445 Global Systems & Change Management**5 credits | SOCS****Quarter(s): F**

Focuses on change management within a technical environment. Students will examine key leadership challenges, skills, and competencies needed for effective 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 with an emphasis on effective decision-making practices and change models.

Prerequisites: None

OLTM 449 Financial Management**5 credits | REEL****Quarter(s): Sp**

Introduces analysis of managerial planning and control systems. Examines the development and administration of operating reports, budgets, and financial support systems. Introduces accounting vocabulary and financial statement analysis, emphasizing financial information for effective organizational leadership.

Prerequisite: A college-level math course for which intermediate algebra is a prerequisite from the quantitative distribution list.

OLTM 450 Negotiations, Mediation and Conflict Resolutions**5 credits | ELEC****Quarter(s): W**

Explores themes and skills related to negotiation, mediation, and conflict management within a variety of professional and organizational contexts. Students will explore the nature, sources, and role of conflict within organizations and analyze relationship dynamics and underlying interests among conflicting parties. Students will learn effective individual and group strategies through a variety of experiential activities and simulations.

Prerequisites: None

OLTM 455 Advanced Project Management**5 credits | ELEC****Quarter(s): W**

Develops student knowledge and skills required for effective project management. Students learn the main phases, strategies and tools that support effective project management processes. This course covers all the stages of the project life cycle including selecting projects, project planning, and risk assessment through execution, monitoring and control. By analyzing case studies, students will assess and apply best project management practices in the context of real-world scenarios.

Prerequisites: None

OLTM 460 Coaching and Mentoring**5 credits | ELEC****Quarter(s): Sp**

Provides students an opportunity to integrate leadership knowledge and skills through the application of leadership models as applied to real-world scenarios related to conflict, team dynamics and emotional intelligence. Students will begin to develop a vision of their vocation as leaders by participating in real-time, case-in-point examples of adaptive leadership. Students refine their understanding of the principles of servant leadership and further explore adaptive leadership theory through practice. These two leadership theories, in tandem, provide a unique approach to leadership, with servant leadership cultivating the heart, while adaptive leadership provides an avenue for active application.

Prerequisites: None

OLTM 465 Current Issues in Human Resource Management**5 credits | ELEC****Quarter(s): Sp**

Integrates and applies concepts in human resources, psychology, and business to address current issues in Human Resources Management (HRM). Students will learn to synthesize their knowledge of human resource principles and practice by applying their knowledge to issues of current concern to HRM professionals. Students will probe contemporary topics in human resource management in depth with an emphasis on the impact of legal and societal developments on human resource management practices in areas such as workplace diversity, sexual harassment, gender issues, discrimination, work life balance, and outsourcing.

Prerequisites: None

OLTM 495 Capstone**5 credits | ELEC****Quarter(s): Sp**

Integrates and applies program professional competencies. Students will demonstrate a comprehensive understanding of program outcomes through the development and delivery of a leadership project through one or a combination of the following: Workplace leadership project synthesizing knowledge, skills, and experiences in area of technical expertise; Service/community-based leadership project synthesizing program knowledge, skills, and experiences; College-to-career transition experience (e.g., internship/practicum); Achievement of recognized external industry/professional standards or credentials.

Prerequisites: A C or better in each OLTM core course

Philosophy (PHIL)**PHIL& 101 Intro to Philosophy****5 credits | HUM****Quarter(s): F, W, Sp**

Explores the major branches of philosophy: Ethics, philosophy of religion, political philosophy, and epistemology while building and expressing a coherent and consistent worldview. Critiques philosophical arguments of significant contributors to the Western philosophical tradition.

Prerequisite: ENGL& 101

PHIL 260 Philosophy of Religion**5 credits | HUM****Quarter(s): W**

Surveys the primary areas of the philosophy of religion including arguments for the existence of God, the relationship between faith and reason, the attributes of the God of ethical monotheism, the Problem of Evil, theodicies, the nature of religious experiences, miracles, and life after death. Focuses on the Western philosophical tradition, though some non-Western philosophies are used as points of comparison and contrast.

Prerequisite: ENGL& 101

PHIL 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

PHIL 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Physical Education (PHED)

PHED 104 Pilates and Stretch**1 credit | PAC, REEL****Quarter(s): F, W, Sp**

Strength and flexibility exercises practiced with Pilates routine to create a balanced and effective program. Emphasis on core strength, posture, balance and toning. Lab hours are required for this course.

Prerequisite: None

PHED 105 Pilates & Yoga - Beginning**1 credit | PAC, REEL****Quarter(s): F, W**

Pilates and yoga routines will be practiced together to create a balanced and effective strength and flexibility workout. The exercises will emphasize core strength, back strength, posture, balance, and toning major muscle groups. Lab hours are required for this course.

Prerequisite: None.

PHED 106 Yoga for Beginners**1 credit | PAC, REEL****Quarter(s): F, W, Sp**

Introduces yoga routines and poses for a balanced and effective strength and flexibility workout. Emphasizes core strength, back strength, posture, balance, and toning of major muscle groups. Encourages students to link the body and the mind through the poses, routines and meditation time. Students should bring their own yoga mat to class. Lab hours are required for this course.

Prerequisites: None

PHED 109 Baseball Coaching Theory**2 credits | ELEC****Quarter(s): Sp**

Develops a basic understanding of coaching the sport of baseball. Includes concepts of coaching leadership, sport psychology, sport specific coaching theory, and developing proper sport-specific technique. Covers the use of technology and modern equipment to coach players in their individual development. Required for first year baseball student athletes.

Prerequisite: Instructor permission

PHED 110 Circuit Training**2 credits | PAC, REEL**

Develops the basic components of physical fitness for students through participation in an aerobic circuit weight training program. The super-circuit aerobics program utilizes a combination of endurance and strength machines to provide one of the most effective conditioning methods known for developing baseline levels of physical fitness. Lab hours are required for this course.

Prerequisite: None

PHED 114 Applied Baseball I**2 credits | PAC****Quarter(s): W**

Provides baseball student athletes an opportunity to demonstrate baseball skills, strategies, and rules of play and participate in a sport specific-strength and conditioning program. Required for all first year baseball student athletes. Lab hours are required for this course.

Prerequisite: Instructor permission.

PHED 117 Applied Soccer I**2 credits | PAC****Quarter(s): F**

Provides soccer student athletes an opportunity to demonstrate their soccer skills, strategies, rules of play, and to participate in a sport specific-strength and conditioning program. Required for all first year soccer student athletes. Lab hours are required for this course.

Prerequisite: Instructor permission

PHED 118 Applied Softball I**2 credits | PAC****Quarter(s): Sp**

Provides softball student-athletes an opportunity to demonstrate softball skills, strategies, and rules of play and participate in a sport specific-strength and conditioning program. Required for all first year softball student-athletes. Lab hours are required for this course.

Prerequisite: Instructor permission

PHED 119 Men's Basketball Coaching Theory**2 credits | ELEC****Quarter(s): W**

Develops a basic understanding of coaching the sport of men's basketball. Includes concepts of coaching leadership, sport psychology, sport specific coaching theory, and developing proper sport-specific technique. Covers the use of technology and modern equipment to coach players in their individual development. Required for first year men's basketball student athletes.

Prerequisite: Instructor permission

PHED 120 Cross-Training**2 credits | ELEC, PAC****Quarter(s): F**

Introduces the fundamental theories of cross-training for various types of activities. Implements individualized work-out routines needed to better lifetime fitness whether it is strength training, power lifting, conditioning or endurance. Students will increase strength, fitness and conditioning by taking this class. Students will define and design a work-out program that will help them attain their fitness goals. Lab hours are required for this course.

Prerequisite: None

PHED 121 Beginning Foil Fencing**1 credit**

Presents the skills, strategies, rules, and physical conditioning for the competitive or leisure pursuit of fencing. Lab hours are required for this course.

Prerequisite: None

PHED 122 Intermediate Foil Fencing**1 credit**

Advancement of the skills, strategies, rules, and physical conditioning beyond the basics for competitive or leisure pursuit. Lab hours are required for this course.

Prerequisite: PHED 121 or instructor permission.

PHED 125 Boot Camp**1 credit | ELEC, PAC**

Provides a well-rounded, full body work out in every class. Students will work on cardiorespiratory endurance, muscular strength and endurance, body composition and flexibility. Students will keep their heart rates elevated while learning a variety of fitness exercises and using different pieces of fitness equipment such as: kettle bells, stability balls, stretch bands, weighted bars and medicine balls. Class format will include large group, stations, relays and more. Core work outs, Pilates and yoga will also be incorporated into this class. Lab hours are required for this course.

Prerequisite: None

PHED 126 Aerobic Exercise**1-2 credits | PAC, REEL**

Guides students through rhythmical and continuous exercise performed to music. Every student, no matter what age or body type, will be provided the opportunity to improve their cardiorespiratory endurance through participation. Lab hours are required for this course.

Prerequisite: None

PHED 127 Zumba I**1-2 credits | PAC, REEL**

Fuses hypnotic Latin rhythms and easy-to-follow moves. The routines feature interval training sessions, where fast and slow rhythms and resistance training are combined to tone and sculpt your body while burning fat. Lab hours are required for this course.

Prerequisite: None

PHED 128 Weight Training**2 credits | PAC, REEL****Quarter(s): S, F, W, Sp**

Improves strength, physical conditioning, and performance through correct use of universal equipment, free weights and cardiorespiratory equipment. Emphasis will be on health and fitness education. Each student will design a program specific to his or her goals for the quarter. Lab hours are required for this course.

Prerequisite: None

PHED 129 Aqua Zumba I**1-2 credits | ELEC**

Blends the Zumba formula and philosophy with traditional aqua fitness disciplines into a safe, challenging, water-based workout that's body-toning and cardio-conditioning. Lap swim is also available during this time. Lab hours are required for this course.

Prerequisite: None

PHED 130 Swimming**1 credit**

Provides instruction of the basic swimming strokes, personal safety skills and conditioning programs for muscular and cardiovascular endurance of the swimmer. Students will attend this class at the Mark Morris pool. Lab hours are required for this course.

Prerequisite: None

PHED 135 Fitness Walking**2 credits | PAC****Quarter(s): S, F, W, Sp**

Utilizes walking in developing the health-related components of physical fitness. Emphasis will be placed on cardiorespiratory endurance through low-impact, moderate intensity exercise. Lab hours are required for this course.

Prerequisite: None

PHED 136 Men's Applied Basketball I**2 credits | PAC****Quarter(s): Sp**

Provides men's basketball student athletes an opportunity to demonstrate basketball skills, strategies, and rules of play and to participate in a sport specific-strength and conditioning program. Required for all first year men's basketball student athletes. Lab hours are required for this course.

Prerequisite: Instructor permission

PHED 137 Women's Applied Basketball I**2 credits | PAC****Quarter(s): Sp**

Provides basketball student athletes an opportunity to demonstrate basketball skills, strategies, and rules of play and participate in a sport specific-strength and conditioning program. Required for all first year women's basketball student athletes. Lab hours are required for this course.

Prerequisite: Instructor permission

PHED 138 Applied Volleyball I**2 credits | PAC****Quarter(s): F**

Provides volleyball student athletes an opportunity to demonstrate volleyball skills, strategies, and rules of play and to participate in a volleyball-conditioning program. Required for all first year volleyball student athletes. Lab hours are required for this course.

Prerequisite: Instructor permission

PHED 139 Train for a Race**1-2 credits | PAC****Quarter(s): F, Sp**

Promotes instruction, coaching and experience in training for a race (5k, 10k, adventure run). Work-outs will include walking, running, cross-training, obstacle training, strength training and team building. All fitness levels are welcome. If students choose to participate in a race during the quarter, signing up for and cost of the event is the responsibility of the student. Lab hours are required for this course.

Prerequisites: None

PHED 152 Personalized Fitness**1-2 credits | PAC, REEL****Quarter(s): S, F, W, Sp**

Requires students to plan and execute an individual exercise program designed specifically to meet personal goals and objectives related to physical fitness. Students may utilize Lower Columbia's exercise facility or may choose to participate in off-campus activities. Lab hours are required for this course.

Prerequisite: None

PHED 155 Rock Climbing - Beginning**1 credit | PAC, REEL****Quarter(s): Sp**

Provides instruction in the skills and techniques of rock climbing. Introduces rock climbing equipment; provides practice in basic rock climbing skills and belaying. Upon successful completion of the course, students will receive a belay certification. Class is held in the on-campus, indoor rock climbing facility. Lab hours are required for this course.

Prerequisites: None

PHED 159 Women's Basketball Coaching Theory**2 credits | ELEC****Quarter(s): W**

Develops a basic understanding of coaching the sport of women's basketball. Includes concepts of coaching leadership, sport psychology, sport specific coaching theory, and developing proper sport-specific technique. Covers use of technology and modern equipment to coach players in their individual development. Required for first year women's basketball student athletes.

Prerequisite: Instructor permission

PHED 169 Women's Soccer Coaching Theory**2 credits | ELEC****Quarter(s): F**

Develops a basic understanding of coaching the sport of soccer. Includes concepts of coaching leadership, sport psychology, sport-specific coaching theory, and developing proper sport-specific technique. Covers the use of technology and modern equipment to coach players in their individual development. Required for soccer student athletes during their first year of classes.

Prerequisite: Instructor permission

PHED 171 Prevention and Care of Athletic Injuries**3 credits****Quarter(s): Sp**

Provides training in basic prevention and care of athletic injuries. Includes an introduction to the field of sports medicine, organization and administration of a sports medicine program, recognition of common athletic injuries, evaluation and treatment protocols, rehabilitation techniques and emergency procedures. Basic wrapping, taping, and bracing techniques will be studied and practiced. Basic anatomy, physiology, and infection control will be included. Lab hours are required for this course.

Prerequisite: None

PHED 179 Softball Coaching Theory
2 credits | ELEC**Quarter(s): W**

Develops a basic understanding of coaching the sport of softball. Includes concepts of coaching leadership, sport psychology, sport specific coaching theory, and developing proper sport-specific technique. Covers the use of technology and modern equipment to coach players in their individual development. Required for softball student-athletes during their first year of classes.

Prerequisite: Instructor permission

PHED 189 Volleyball Coaching Theory**2 credits | ELEC****Quarter(s): Sp**

Develops a basic understanding of coaching the sport of volleyball. Includes concepts of coaching leadership, sport psychology, sport specific coaching theory, and developing proper volleyball technique. Covers the use of technology and modern equipment to coach players in their individual development. Required for first year volleyball student athletes.

Prerequisite: Instructor permission

PHED 204 Pilates and Stretch**1 credit | PAC****Quarter(s): F, W, Sp**

Strength and flexibility exercises practiced with Pilates routines to create a balanced and effective program. Emphasis on core strength, posture, balance and toning. Lab hours are required for this course.

Prerequisites: None.

PHED 205 Pilates & Yoga - Intermediate**1 credit | PAC****Quarter(s): W**

Pilates & Yoga routines will be practiced together to create a balanced and effective strength and flexibility workout. Emphasis will be on core strength, back strength, posture, balance, and toning major muscle groups. Lab hours are required for this course.

Prerequisite: PHED 105 or instructor permission.

PHED 210 Circuit Training**2 credits | PAC**

Develops the basic components of physical fitness for students through participation in an aerobic circuit weight training program. The advanced super-circuit aerobics program utilizes a combination of endurance and strength machines to provide one of the most effective conditioning methods known for developing more advanced levels of physical fitness. Lab hours are required for this course.

Prerequisite: None

PHED 214 Applied Baseball II**1 credit | PAC****Quarter(s): F**

Provides baseball student athletes an additional opportunity to refine their skills, strategies, and understanding of rules of play. Required for all second year baseball student athletes. Lab hours are required for this course.

Prerequisite: Instructor permission

PHED 215 Outdoor Skills Experience**2 credits | ELEC, PAC****Quarter(s): S**

Provides local outdoor fitness activities and opportunities to learn the importance of teamwork and outdoor wilderness safety. Typical activities may include hiking, rock climbing, kayaking, biking, orienteering, and team building activities. Actual activities may vary according to the season and equipment availability.

Students must be in good physical condition before taking this course.

Equipment rental fees vary quarter to quarter, and are the responsibility of the student. Details about costs and specific activities will be provided at the first class session or by contacting the instructor.

Two to three off-campus field trips are a required part of this course. Lab hours are required for this course.

Prerequisites: None

PHED 216 Winter Outdoor Experience
2 credits | ELEC, PAC

Quarter(s): W

Provides local outdoor fitness activities and opportunities to learn the importance of teamwork and winter outdoor safety. Typical activities may include snowshoeing, cross country skiing, winter safety, downhill skiing and/ or snowboarding, and team building activities. Actual activities may vary according to the season and equipment availability. Students must be in good physical condition before taking this course. Equipment rental fees vary by quarter and activity, and are the responsibility of the student. Details about costs and specific activities will be provided at the first class session or by contacting the instructor. Three off-campus field trips are a required part of this course. Lab hours are required for this course.

Prerequisites: None

PHED 217 Applied Soccer II
1 credit | PAC

Quarter(s): F

Provides soccer student athletes an additional opportunity to refine their soccer skills, strategies, and understanding of rules of play, and to participate in a sport specific-strength and conditioning program. Required for all second year soccer student athletes. Lab hours are required for this course.

Prerequisite: Instructor permission

PHED 218 Applied Softball II
1 credit | PAC

Quarter(s): F

Provides softball student athletes additional opportunities to refine softball skills, strategies, and rules of play and participate in a sport specific-strength and conditioning program. Required for all second year softball student-athletes. Lab hours are required for this course. Prerequisite: Instructor permission

PHED 220 Cross-Training
2 credits | PAC

Quarter(s): F

Introduces the fundamental theories of cross-training for various types of activities. Implements individualized work-out routines needed to better your lifetime fitness whether it is strength training, power lifting, conditioning or endurance. Students will increase strength, fitness and conditioning by taking this class. Students will define and design a work-out program that will help them attain their fitness goals. Lab hours are required for this course.

Prerequisite: None

PHED 226 Aerobic Exercise
1-2 credits | PAC, REEL

Quarter(s): F

Guides students through rhythmical and continuous exercise performed to music. Every student, no matter what age or body type, will be provided the opportunity to improve their cardiorespiratory endurance through participation. Lab hours are required for this course.

Prerequisite: None

PHED 227 Zumba II**1-2 credits | PAC**

Fuses hypnotic Latin rhythms and easy-to-follow moves. The routines feature interval training sessions, where fast and slow rhythms and resistance training are combined to tone and sculpt your body while burning fat. Lab hours are required for this course.

Prerequisite: None

PHED 228 Weight Training**2 credits | PAC****Quarter(s): S, F, W, Sp**

Improves strength, physical conditioning, and performance through correct use of universal equipment, free weights and cardiorespiratory equipment. Emphasis will be on health and fitness education. Each student will design a program specific to his or her goals for the quarter. Lab hours are required for this course.

Prerequisite: None

PHED 229 Aqua Zumba II**1-2 credits | ELEC**

Blends the Zumba formula and philosophy with traditional aqua fitness disciplines into a safe, challenging, water-based workout that's body-toning and cardio-conditioning. Lap swim is also available during this time. Lab hours are required for this course.

Prerequisite: None

PHED 230 Swimming**1 credit**

Provides instruction of the basic swimming strokes, personal safety skills and conditioning programs for muscular and cardiovascular endurance of the swimmer. Students will attend this class at the Mark Morris pool. Lab hours are required for this course.

Prerequisite: None

PHED 235 Fitness Walking**1-2 credits | PAC****Quarter(s): S, F, W, Sp**

Utilizes walking in developing the health-related components of physical fitness. Emphasis will be placed on cardio respiratory endurance through low-impact, moderate intensity exercise. Lab hours are required for this course.

Prerequisite: None

PHED 236 Men's Applied Basketball II**1 credit | PAC****Quarter(s): F**

Provides men's basketball student athletes an additional opportunity to refine skills, strategies, and rules of play, and to participate in a sport specific-strength and conditioning program. Required for all second year men's basketball student athletes. Lab hours are required for this course.

Prerequisite: Instructor permission

PHED 237 Women's Applied Basketball II**1 credit | PAC****Quarter(s): F**

Provides women's basketball student athletes an additional opportunity to refine their basketball skills, strategies, understanding of rules of play, and to participate in a sport specific-strength and conditioning program. Required for all women's second year basketball student athletes. Lab hours are required for this course.

Prerequisite: Instructor permission

PHED 238 Applied Volleyball II**1 credit | PAC****Quarter(s): W**

Provides volleyball student athletes an additional opportunity to refine their volleyball skills, strategies, and understanding of rules of play, and to participate in a volleyball-conditioning program. Required for all second year volleyball student athletes. Lab hours are required for this course.

Prerequisite: Instructor permission

PHED 246 Fast-pitch Softball-Women**1 credit | PAC****Quarter(s): F**

Presents students the opportunity to learn fastpitch skills, strategies, and rules of play. Students will participate in a softball-conditioning program designed for the sport-related needs. Lab hours are required for this course.

Prerequisite: None

PHED 252 Personalized Fitness**1-2 credits | PAC, REEL****Quarter(s): S, F, W, Sp**

Requires students to plan and execute an individual exercise program designed specifically to meet personal goals and objectives related to physical fitness. Students may utilize Lower Columbia's exercise facility or may choose to participate in off-campus activities. Lab hours are required for this course.

Prerequisite: None

PHED 285 Fitness Marketing**3 credits | ELEC****Quarter(s): F**

Provides an overview of the marketing process and functions with a focus on launching and growing a fitness business and/or career.

Prerequisites: None

PHED 288 Cooperative Work**Experience****1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289

or BUS 294 must be taken prior to or concurrent with this course.

PHED 295 Personal Training**Instruction****3 credits | ELEC****Quarter(s): Sp**

Provides content and skills necessary to become effective personal trainers and to prepare for the ACE Personal Trainer Certification Exam. This course presents the ACE Integrated Fitness Training® Model as a comprehensive system for designing individualized programs based on each client's unique health, fitness, and goals. Information covered will help students learn to facilitate rapport, adherence, self-efficacy, and behavior change in clients, as well as design programs to improve clients' posture, movement, flexibility, balance, core function, cardiorespiratory fitness, muscular endurance and strength, and sports performance. This course is built on a curriculum developed by a nationally recognized certification program.

Prerequisites: None

PHED 296 Group Exercise Instruction
3 credits | ELEC**Quarter(s): Sp**

Provides the knowledge and understanding necessary to prepare for the ACE Group Fitness Instructor Certification Exam and become effective group fitness instructors. Information covered includes: basic human anatomy and exercise physiology, steps in designing a successful group exercise class, understanding the fitness needs of special populations, and examining the business side of group fitness instruction. Prerequisites: None

PHED 299 Independent Study
1-10 credits

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisites: By instructor permission only.

Physical Science (PHSC)

PHSC 108 Physical Science
5 credits | NSL

Explores the everyday physical world through the study of matter, momentum and motion, forms of energy, electricity and magnetism. Physical laws are presented that describe the interaction of energy and matter that are seen in everyday life. Students will gain an understanding of the natural world and science as a field of study. Includes lab. Students cannot receive credit for both PHSC 108 and PHSC 109. Lab hours are required for this course. Prerequisite: None

PHSC 109 Energy and Matter:
Physical Sciences**5 credits | NSL****Quarter(s): F**

Explores energy and matter through the study of matter, momentum and motion, forms of energy, electricity and magnetism. Students will gain an understanding of the natural world and science as a field of study, as well as develop skills to apply and teach scientific principles in everyday life. Intended primarily for elementary education and early childhood education majors. Includes lab. Students cannot receive credit for both PHSC 108 and PHSC 109. Lab hours are required for this course.

Prerequisite: None

Physics (PHYS)

PHYS& 100 Physics Non-Sci Majors
5 credits | NSL**Quarter(s): Sp**

Emphasizes the process and historical/ logical development of physics and relates the conceptual ideas of physics to everyday experience. The course is offered primarily to meet laboratory science requirements for an Associate degree; it is also useful in lieu of high school physics. Laboratory is included. Lab hours are required for this course. Prerequisites: MATH 88 OR MATH 97 OR CCP 88 OR CCP 97 OR permission of the instructor.

**PHYS& 114 General Phys I w/Lab
5 credits | NSL**

Quarter(s): F

Provides the first quarter of a sequence for students in various health science, technology, and pre-professional areas. Student-initiated motion studies introduce the fundamental principles of mechanics through studies of kinematics, Newton's Principles, energy and momentum conservation principles, and their rotational analogues. Students participate in supporting small group laboratory investigations. Lab hours are required for this course.

Prerequisites: MATH 098 or MATH 087/097 with a grade of C or better OR CCP 098 or CCP 097 with a grade of B or better.

**PHYS& 115 General Phys II w/Lab
5 credits | NSL**

Quarter(s): W

Incorporates both thermodynamics and electromagnetism, including active student investigations of temperature, heat and thermal energy, entropy, the properties of simple electric and magnetic fields, and simple AC and DC circuits. Classroom activities help students connect the nature and role of fundamental principles in physics with real everyday operations of those principles. Students learn operation and use of contemporary instrumentation in lab investigations. Lab hours are required for this course.

Prerequisites: PHYS& 114 or Instructor Permission.

**PHYS& 116 General Phys III w/Lab
5 credits | NSL**

Quarter(s): Sp

Emphasizes the scientific development of fundamental principles through active student investigations of mechanical and electromagnetic waves, geometrical and physical optics, special relativity, particles, waves, the quantum theory of the atom, the physics of the nucleus, and elementary particle theory as time permits. Lab hours are required for this course.

Prerequisite: PHYS& 115 (was PHYS 102) or instructor permission.

**PHYS& 221 Engr Physics I w/Lab
5 credits | NSL**

Quarter(s): F

Provides the first quarter of a three-quarter calculus-based physics sequence for majors in the physical sciences, engineering, or mathematics. The Principles of Newtonian Mechanics are introduced, progressing through kinematics, then dynamics, with applications to problems involving particle and rigid body motion. Small groups carry out supporting lab investigations that further clarify and apply these fundamental principles. Use of elementary calculus gradually increases during the quarter. Lab hours are required for this course.

Prerequisites: Completion of or concurrent enrollment in MATH& 151 or instructor permission.

**PHYS& 222 Engr Physics II w/Lab
5 credits | NSL****Quarter(s): W**

Second quarter of a three-quarter calculus-based physics sequence for majors in the physical sciences, engineering, or mathematics. Incorporates study of the mechanics of fluids, oscillatory motion, thermodynamics, electrostatics and electric current. Student labs include investigations of waves, temperature, heat flow, entropy and static electricity. The laboratory component further clarifies and applies these fundamental principles. Lab hours are required for this course.

Prerequisites: PHYS& 221, MATH& 152 or instructor permission.

**PHYS& 223 Engr Physics III w/Lab
5 credits | NSL****Quarter(s): Sp**

Third quarter of a three-quarter calculus-based physics sequence for majors in the physical sciences, engineering, or mathematics. Incorporates electromagnetism and wave physics through student investigation of magnetism, time-varying magnetic fields, DC and AC circuits, electromagnetic waves, geometrical and physical optics. The laboratory component further clarifies and applies these fundamental principles. Lab hours are required for this course.

Prerequisites: PHYS& 222 or instructor permission.

**PHYS 288 Cooperative Work
Experience****1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

**PHYS 299 Independent Study
1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisites: By instructor permission only.

Political Science (POLS)

**POLS& 101 Introduction to Political
Science****5 credits | SOCS****Quarter(s): Sp**

Examines the foundations of political science: key political ideas, theories, processes, and institutions, and explores examples of these in today's world.

Prerequisite: None

POLS& 202 US Government**5 credits | SOCS****Quarter(s): F, W, Sp**

Studies the structure practices and interactions of the political and governmental institutions of the United States, evaluating them from multiple theoretical perspectives.

Prerequisite: ENGL&101

POLS& 203 International Relations**5 credits | SOCS****Quarter(s): F, W, Sp**

Introduces the nature and basic principles of international politics, with an analysis of such concepts as imperialism, nationalism, internationalism, the causes of war, and conditions for peace.

Prerequisite: ENGL& 101

POLS& 204 Comparative Government**5 credits | SOCS**

Analyzes the political and economic systems and ideologies of capitalism, socialism, communism, and fascism within the context of the cultural traditions of Western Civilization and considers these systems as alternative methods of the allocation of political and economic power in society, with special emphasis given to the disparity between the stated objectives of these systems and their actual accomplishment.

Prerequisites: None

POLS 220 Law and Social Issues**5 credits | SOCS****Quarter(s): Sp**

Examines the interrelationships between law and social structures, processes, evolution and changes in society and laws. Explores lines drawn by democracies in the attempt to reconcile individual freedoms with the rights of the community. Analyzes and evaluates issues with basic rights and liberties, freedom of expression, due process of law, and political, social and racial equality.

Prerequisites: ENGL& 101

POLS 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

POLS 294 Selected Topics in Political Science I**1-5 credits****Quarter(s): W**

Examines topical or special issues in political science. Course theme and content change to reflect new topics, which are announced in the quarterly class schedule.

Prerequisite: None

POLS 295 Selected Topics In Political Science II**1-5 credits**

Examines topical or special issues in political science. Course theme and content change to reflect new topics, which are announced in the quarterly class schedule.

Prerequisite: None

POLS 296 Selected Topics In Political Science III**1-5 credits**

Examines topical or special issues in political science. Course theme and content change to reflect new topics, which are announced in the quarterly class schedule.

Prerequisite: None

POLS 297 Selected Topics in Political Science IV**1-5 credits**

Examines topical or special issues in political science. Course theme and content change to reflect new topics, which are announced in the quarterly class schedule.

Prerequisite: None

POLS 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Process Control Manufacturing (PMFG)

PMFG 110 Industrial & Predictive Maintenance Fundamentals**5 credits | REEL****Quarter(s): W**

Introduces essential elements of industrial maintenance. Provides an overview of the jobs and tasks generally performed in manufacturing operations. Covers an overview of general types of industrial equipment, the proper use of a variety of hand tools and measuring instruments, and an exploration of fasteners, bearings, bushings, seals, and lubrication systems. Presents safety procedures including lockout/tag out of electrical/mechanical energy systems, sketching using ANSI standards, layout and machinery installation, and basic troubleshooting techniques.

Prerequisites: None

PMFG 150 Electrical and Electronic Fundamentals

6 credits | REEL

Quarter(s): F

Introduces the nature and principles of electricity and electrical/electronic devices. Focuses on general principles, safety, industrial applications, and includes topics related to both DC and AC circuits. Topics explored include basic theory and direct current circuits, measuring instruments, interpretation of electrical and schematic diagrams, ohms law, basic electrical circuit analysis, applied mathematical concepts used in solving for values in series and parallel circuits, electrical safety and basic magnetic concepts. Additional topics are alternating current circuits, the use of AC measuring instruments, single phase and three phase AC distribution systems, transformers, and an overview of basic electronic devices, their function, and common applications. The course is designed for individuals entering the electrical trades, maintenance personnel or production/process operators. Lab hours are required for this course. Prerequisites: MATH 78/79 or higher or CCP 79 or concurrent enrollment, or instructor permission

PMFG 151 Process Control Equipment

5 credits | REEL

Quarter(s): F

Provides an overview of process control equipment for operating personnel in industries utilizing process manufacturing techniques. Introduces the fundamentals of process control, control equipment and equipment fault identification and troubleshooting. Prerequisites: None

PMFG 154 Fundamentals of Instrumentation and PLCs

5 credits | REEL

Introduces principles of instrumentation controls and devices. Discusses the process of converting information into electrical or pneumatic signals for measurement and control, and its industrial applications. Introduces compressed air systems, programmable logic control, current-to-pressure, and piping instrument diagrams. Builds on knowledge of electrical fundamentals. Prerequisites: PMFG 150 and PMFG 151 or instructor permission.

PMFG 201 Electrical Control Equipment

3 credits | REEL

Quarter(s): W

Introduces the operation, troubleshooting, and adjustment of various types of electrical control equipment. Fuses, molded case circuit breakers, and control switches are covered. Includes basic principles of motor starters and troubleshooting of control circuits. Prerequisite: PMFG 150 or instructor permission.

PMFG 202 Electric Motors

2 credits | REEL

Quarter(s): Sp

Covers the concepts, maintenance, and testing of AC and DC motors. Includes a study of components and operation of a variety of AC motors and DC motors. Single-phase and three-phase motors are covered. Prerequisite: PMFG 201 or instructor permission.

PMFG 210 Advanced Industrial Maintenance**5 credits | REEL****Quarter(s): Sp**

Explores more advanced industrial maintenance topics, including preventative maintenance, centrifugal pump repair, valve repair, rigging and lifting, vibration analysis, and shaft alignment. Safe work practices are stressed, and relevant safety topics are covered during the course.

Prerequisite: PMFG 110 or instructor permission.

PMFG 220 Introduction to Renewable Energy**5 credits | REEL****Quarter(s): Sp**

This course provides an introduction to renewable energy sources. Topics will include biomass for fuels and electricity generation, solar, wind, geothermal and hydroelectric energy. Students will compare technology, social, environmental and economic impacts of renewable energy. Upon completion, students will be able to demonstrate an understanding of renewable energy and its impact on humans and the environment.

Prerequisites: MATH 97 or CCP 97 and ENGL 99 or higher or instructor permission

PMFG 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

PMFG 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Psychology (PSYC)

PSYC& 100 General Psychology**5 credits | SOCS****Quarter(s): S, F, W, Sp**

Explores the history, scientific principles and theories of psychology. Discusses biological aspects of behavioral and perceptual processes. Topics include behavior, thought, emotion, perception, learning, memory, sexuality and gender, personality theory, and psychological disorders. Examines research and current trends in psychology. Addresses diversity and social factors in human psychology.

Prerequisite: None

PSYC& 200 Lifespan Psychology**5 credits | SOCS****Quarter(s): S, F, W, Sp**

Examines biological, psychological, and social factors of human development, from conception to death. Presents theories and research regarding human growth and development across the lifespan. Explores developmental theories to analyze growth and change through each of the major stages of life. Addresses the effect of poverty and culture on development.

Prerequisite: PSYC& 100

PSYC& 220 Abnormal Psychology**5 credits | SOCS****Quarter(s): W, Sp**

Presents a study of abnormal psychopathology, specifically a study of abnormal human behavior, its description, causes, and diagnosis. Emphasis on treatment and major diagnostic categories such as schizophrenia, personality, mood, and organic brain disorders.

Prerequisite: PSYC& 100 (was PSYC 111) or instructor permission.

PSYC 150 Psychosocial Issues in Health Care I**2 credits | SOCS****Quarter(s): F, W, Sp**

Presents concepts necessary for the provision of psychosocial healthcare. Examines determinants of health and illness across the lifespan, including social, psychological, environmental, spiritual and cultural dimensions, within the context of health care. Topics include coping mechanisms, therapeutic communication, culturally sensitive nursing care and social determinates of health. Fulfills distribution requirement for AN-DTA only. Course offering to nursing program students only.

Prerequisites: NURS 152 with a grade of 'C' or higher or instructor permission.

PSYC 198 Special Topics in General Psychology**1-2 credits | SOCS****Quarter(s): Sp**

Discusses selected topics in psychology, with an emphasis on health care. Restricted to students majoring in nursing who have successfully completed PSYC& 100 at another institution but require one to two additional credits for the AN DTA/MRP degree. Course intended for nursing students who have transferred in three or four credits of PSYC& 100 from another institution. Five credits are required for the AN DTA/MRP degree.

Prerequisites: Instructor permission and PSYC& 100.

PSYC 250 Psychosocial Issues in Health Care II**3 credits | SOCS****Quarter(s): F, W, Sp**

Presents additional concepts necessary for the provision of psychosocial healthcare. Analyzes determinants of health and illness across the lifespan, including social, psychological, environmental, spiritual and cultural dimensions, within the context of health care. Topics include care of the client experiencing mental health challenges, anxiety disorders, thought disorders, mood disorders and chemical dependency. Fulfills distribution requirement for AN-DTA only. Course offering to nursing program students only.

Prerequisites: NURS 251 and PSYC 150 (or 2 credits of PSYC 255) with a grade of 'C' or higher.

PSYC 255 Psychosocial Issues in Health Care**5 credits | SOCS****Quarter(s): W**

Presents additional concepts necessary for the provision of psychosocial healthcare. Analyzes determinants of health and illness across the lifespan, including social, psychological, environmental, spiritual and cultural dimensions, within the context of health care. Topics include care of the client experiencing mental health challenges, anxiety disorders, thought disorders, mood disorders and chemical dependency. Fulfills distribution requirement for AN-DTA only. Course offering to nursing program students only.

Prerequisite: Admission to the Nursing program.

PSYC 288 Cooperative Work Experience**1-15 credits****Quarter(s): S, F, W, Sp**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

PSYC 298 Special Topics in Lifespan Psychology**1-2 credits | SOCS****Quarter(s): Sp**

Discusses selected topics in lifespan psychology. Restricted to students majoring in nursing who have successfully completed PSYC& 200 at another institution but require one or two additional credits for the AN DTA/MRP degree. Course intended for nursing students who have transferred in three or four credits of PSYC& 200 from another institution. Five credits are required for the AN DTA/MRP degree.

Prerequisites: Instructor permission and PSYC& 200.

PSYC 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

PSYC 320 Leadership and Organizational Psychology
5 credits | SOCS

Quarter(s): Sp

Foundation course in the actions of individuals, groups, and organizations. Relate theory and research to organizational problems by reviewing advanced concepts in motivation and perception, leadership, decision-making, communication and influence, group behavior, diversity, conflict and cooperation, politics, corporate culture, organizational structure, and environmental influences.

Prerequisites: None

Sociology (SOC)

SOC& 101 Introduction to Sociology: DIV

5 credits | SOCS, DIV

Quarter(s): S, F, W, Sp

Examines the complexity of the sociological perspective to provide students with the conceptual tools essential to the development of a more complex understanding of the human condition. Students develop a comprehension of the role that social organization, socialization and social interaction plays in the formulation of social identity, a common conceptual understanding, social inequality and cultural diversity. (Formerly known as SOCY 110)

Prerequisite: None

SOC& 201 Social Problems: The Pursuit of Social Justice DIV
5 credits | DIV, SOCS

Study of the magnitude and consequences of social problems in the US from a sociological; power, privilege and inequity; and cross cultural perspective. Examination of solutions that promote social justice and equity. Topics include: poverty, crime and the US justice system, the environment, racial and economic inequalities, gender identity, substance abuse and terrorism. Prerequisites: PSYC& 100 or SOC& 101

SOC 210 Human Sexuality: DIV
5 credits | SOCS, DIV

Presents examination of the scientific research that has led to a better understanding of human sexuality in its anatomical, physiological, sociological, cultural, and psychological aspects. Draws upon the multiple disciplines of sociology, psychology, and cultural anthropology. Incorporates English literature in biographies and/or short story form to illuminate real world issues. Special attention is given to sexual diversity, specifically marginalized LBGTQ individuals, sexual disorders, and sex and gender non-conformity. Prerequisites: None.

SOC 225 Race and Ethnicity: DIV
5 credits | DIV, SOCS

Examines the complexities of race and ethnicity in America and around the world. Topics include the social construction of racial and ethnic identities, the historical patterns of racial and ethnic exclusion, and the role of race and ethnicity in the perpetuation of social inequality and the shaping of world events.

Prerequisite: None

SOC 288 Cooperative Work Experience
1-15 credits

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission
 Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

SOC 299 Independent Study
1-10 credits

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisites: By instructor permission only.

Spanish (SPAN)

SPAN& 121 Spanish I: DIV
5 credits | DIV, HUM
Quarter(s): S, F, W, Sp

Introduces Spanish, emphasizing basic vocabulary and points of language. Aiming at self-expression and literacy, this course engages students in reading, writing, listening, and speaking in the target language. Students will also acquire knowledge of the diverse social, ethnic, and cultural groups that use the language and observe how artistic expression reflects the diversity of cultural values.
 Prerequisites: None

SPAN& 122 Spanish II: DIV
5 credits | DIV, HUM
Quarter(s): S, F, W, Sp

Provides continuation of basic principles offered in SPAN& 121, accumulates vocabulary, reinforces basic grammar, and increases fluency. Aiming at self-expression and literacy, this course engages students in reading, writing, listening, and speaking in the target language. Students will also acquire knowledge of the diverse social, ethnic, and cultural groups that use the language and observe how artistic expression reflects the diversity of cultural values.
 Prerequisites: SPAN& 121 with a grade of C or better or two years of high school Spanish.

SPAN& 123 Spanish III: DIV
5 credits | DIV, HUM
Quarter(s): S, F, W, Sp

Provides further development of basic skills, accumulates vocabulary, reinforces basic grammar, introduces new grammatical principles, and increases fluency. Aiming at self-expression and literacy, this course engages students in reading, writing, listening, and speaking in the target language. Students will also acquire knowledge of the diverse social, ethnic, and cultural groups that use the language and observe how artistic expression reflects the diversity of cultural values.
 Prerequisites: SPAN& 122 with a grade of C or better or three years of high school Spanish.

SPAN& 221 Spanish IV**5 credits | HUM****Quarter(s): S, F, W, Sp**

Provides an intensive review of vocabulary and basic points of language included in the first year, introduces new points, develops communication problem solving skills, and builds an extensive vocabulary pertinent to contemporary social and cultural issues. (Formerly known as SPAN 201)

Prerequisite: For enrollment in second-year Spanish courses, students must complete first-year college level Spanish.

SPAN& 222 Spanish V**5 credits | HUM****Quarter(s): S, F, W, Sp**

Continues to build communication skills, accumulate vocabulary, and increase fluency, with added emphasis on literacy. (Formerly known as SPAN 202)

Prerequisite: SPAN& 221 (was SPAN 201) or equivalent.

SPAN& 223 Spanish VI**5 credits | HUM****Quarter(s): S, F, W, Sp**

Continues to build communication skills, accumulate vocabulary, and increase fluency, with added emphasis on literacy. (Formerly known as SPAN 203)

Prerequisite: SPAN& 222 (was SPAN 202) or equivalent.

SPAN 104 Introduction to Spanish in the Workplace**3-5 credits**

Introduces Spanish, presenting realistic situations and specialized vocabulary needed for basic communication with Spanish speakers in the workplace. Personalized questions, grammar exercises, dialog activities, and role-playing provide students with numerous opportunities to apply points of language in a wide variety of practical contexts. Within any of the vocabulary-specific domains, students will advance from one level to the next in sequence (SPAN 105, 106, and 107).

Prerequisite: None

SPAN 105 Introduction to Spanish in the Workplace**3-5 credits**

Builds vocabulary and introduces more complex points of language, including idioms, grammar, and, especially, pronunciation. Provides additional opportunities for telephone and face-to-face communication in workplace settings. Within any of the vocabulary-specific domains, students will advance from one level to the next in sequence (SPAN 105, 106, and 107).

Prerequisite: SPAN 104 or equivalent

SPAN 106 Spanish in the Workplace**3-5 credits**

Accumulates vocabulary and introduces additional verb forms and pronoun usage, which are essential to clear oral communication. Enables further telephone and face-to-face communication with clients and co-workers whose principle language is Spanish. Within any of the vocabulary-specific domains, students will advance from one level to the next in sequence (SPAN 105, 106, and 107).

Prerequisite: SPAN 105 or equivalent

**SPAN 107 Spanish in the Workplace
3-5 credits**

Increases fluency, concentrating on effective communication (listening and speaking), self-expression, and literacy. Within a particular domain, students will learn to interact with clients and co-workers whose principal language is Spanish. Within any of the vocabulary-specific domains, students will advance from one level to the next in sequence (SPAN 105, 106, and 107).

Prerequisite: SPAN 106

**SPAN 288 Cooperative Work
Experience****1-15 credits****Quarter(s): F, W**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

**SPAN 299 Independent Study
1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

**SPAN 97 Spanish Grammar for
Beginners: Present Tense Verbs
2 credits**

Enables understanding of verb conjugation in the present tense in Spanish. Presents minimal vocabulary and does not concern oral proficiency. While this course is self-directed, students may be assisted by a tutor or an instructor. Graded on a credit/no credit basis. (Formerly known as INDV 097.) Lab hours are required for this course.

Prerequisite: None

**SPAN 98 Spanish Grammar for
Beginners: Nouns/Modifiers
1 credit**

Enables understanding of nouns and modifiers in Spanish. Presents minimal vocabulary and does not concern oral proficiency. While this course is self-directed, students may be assisted by a tutor or an instructor. Graded on a credit/no credit basis. (Formerly known as INDV 098.) Lab hours are required for this course.

Prerequisite: None

Substance Use Disorder Studies (SUDS)

SUDS 101 Introduction to Substance Use Disorders

5 credits | SOCS

Quarter(s): S, F, W, Sp

Introduces substance use disorders, including diagnostic criteria, socio-cultural aspects, substance use progression, treatment, and prevention. Discusses various substances involved in substance use disorders and their effects on health and behavior. Describes basic treatment principles and models. Foundational course for students interested in a career in the substance use disorders field.

Prerequisites: None

SUDS 102 Introduction to Theories and Counseling

3 credits | REEL

Quarter(s): W

Introduces the student to the need for a theoretical base for substance use disorder counseling. Students will learn the fundamental concepts of at least three contemporary theories of counseling, and will gain a working knowledge of brief therapy.

Prerequisites: SUDS 101

SUDS 105 Substance Use Disorders/ Domestic Violence

3 credits | REEL

Quarter(s): W

Examines the relationship of substance use disorders and intimate relationship abuse, neglect and harm. Analyses family violence as well as the legal and social impact on society and the family system.

Prerequisites: None

SUDS 107 Adolescent Substance Use Disorder Assessment and Treatment

3 credits | REEL

Quarter(s): Sp

Examines treatment modalities and screening tools used while working with adolescents. Delineates adolescent developmental stages and their influence on adolescent substance use, dependence, including the impact on cognitive and socioemotional development. Examines the impact on the family system, society and challenges specific to adolescent substance use diagnosis, treatment and recovery. Explores the challenges of treating adolescents experiencing co-occurring disorders.

Prerequisites: None

SUDS 109 Process of Addiction and Compulsive Behaviors

4 credits | REEL

Quarter(s): F

Explores compulsive behaviors and addiction from various perspectives. Examines the principles of addiction, features of compulsive behaviors, risk factors, and signs and symptoms related to the recovery process. Includes discussion of addiction and compulsive behaviors in populations that have been traditionally marginalized.

Prerequisites: None

SUDS 110 Alcohol/Drug Pathophysiology and Pharmacology
3 credits | REEL

Quarter(s): Sp

Examines the pharmacological effects on the human body with an emphasis on the pathophysiological process of alcohol and other drugs. Explores drug classifications, prescription and non-prescription, drug interactions, and poly-substance use. Analyzes the detoxification process related to acute and post-acute withdrawal signs and symptoms. Explores the effects of maternal substance use on prenatal development.

Prerequisites: SUDS 101, 102, 113

SUDS 111 Record Keeping and Case Management

3 credits | REEL

Quarter(s): Sp

Analyses skills required for case management and record keeping. Discusses documentation, screening, intake procedures, assessment, treatment planning, clinical progress notes and reports. Introduces discharge summaries, confidentiality laws and responsibilities. Introduces service coordination, treatment plan implementation and continued assessment of goals and objectives. Introduction to American Society of Addiction Medicine (ASAM) treatment recommendation standards when determining levels of care for SUD treatment.

Prerequisites: SUDS 101, 102, 113

SUDS 113 Substance Abuse and Addiction Treatment Methods

3 credits | REEL

Quarter(s): F

Introduces the process and principles for effectively treating moderate to severe substance use disorders/addictions. Examines the importance of using a developmental approach when treating addiction and explains the counselor's role in assisting the client while moving through the stages of recovery. Introduces various approaches and methods such as motivation interviewing and fundamental counseling skills.

Prerequisite: SUDS 101 Corequisite: SUDS 101

SUDS 114 Suicide Assessment, Prevention, and Crisis Management
2 credits | REEL

Quarter(s): W

Presents methods for assessing suicide risk, intervention techniques and suicide prevention strategies. Explores crisis management methods. Discusses the legalities involved in suicide assessment, prevention and mandatory reporting.

Prerequisites: None

SUDS 121 SUD Professional and Ethical Responsibilities

3 credits | REEL

Quarter(s): W

Explores the history of legal, ethical and professional codes applicable to the substance use disorder profession. Examines ethical decision making, confidentiality, boundaries and maintaining the professional counselor/client relationship within a multicultural context.

Prerequisites: None

SUDS 201 SUD and the Family System**3 credits | REEL****Quarter(s): Sp**

Examines counseling strategies for substance use, abuse and addiction within the context of the family system dynamic. Introduces client, family and community education and treatment modalities.

Prerequisites: SUDS 101, 102, 113, 215

SUDS 202 SUD Counseling with Diverse Populations**3 credits | REEL****Quarter(s): F**

Introduces skills and responsibilities needed to work as a culturally aware substance use disorder counselor. Examines culture, ethnicity, race, sexual orientation, ability, age, gender, spiritual values, socioeconomic factors, underserved and marginalized populations. Students are expected to explore their own identities and assumptions towards bias, oppression, discrimination and marginalization.

Prerequisites: SUDS 101, 102, 113, 121

SUDS 203 Relapse Prevention and Intervention**3 credits | REEL****Quarter(s): W**

Introduces relapse prevention and interventions strategies. Discusses intervention and relapse processes and techniques. Discusses assessment, education, intervention, relapse, treatment planning, family system involvement and stress reduction.

Prerequisites: SUDS 101, 102, 113

SUDS 215 Group Counseling: Theories and Applications**3 credits | REEL****Quarter(s): F**

Introduces practices and the application of group counseling theories. Explores group counseling dynamics and techniques. Analyses the therapeutic benefit of group counseling. Examines the purposeful group experience and basic social process. Explores ethical practices within the group counseling setting. Introduces group counseling skills necessary for group facilitation.

Prerequisites: SUDS 101 and 113

SUDS 220 Co-Occurring Disorders: Mental Health Disorders in SUDS**3 credits | REEL****Quarter(s): Sp**

Examines the immediate and lasting mental and emotional impact of co-occurring disorders. Explores the co-occurring impact of substance use and mental health. Introduces best practice modalities used when treating individuals experiencing a co-occurring disorder.

Prerequisites: SUDS 101, 102, 113

SUDS 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

SUDS 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By Instructor Permission only.

Technology Education (TECH)

TECH 100 Advanced Principles of Technology**5 credits | REEL**

Provides hands-on study of energy, power, and force transformers in mechanical, fluid, electrical and thermal energy systems. Includes a review of force, work, rate, and resistance. Students will learn through a combination of lab experiments and discussion of the physics and math related to each energy system. The application in industry of various concepts is also explored.

Prerequisite: One year of high school principles of technology (certificate from instructor required) or MATH 106 or higher.

TECH 288 Cooperative Work Experience**1-15 credits**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success.

Prerequisites: Instructor or Cooperative Education Coordinator permission

Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

TECH 299 Independent Study**1-10 credits**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract.

Prerequisites: By instructor permission only.

Welding (WELD)

WELD 105 Related Welding**1-6 credits | REEL****Quarter(s): S, F, W, Sp**

Presents the fundamentals of welding and cutting processes. Covers safe operation of selected power tools and equipment used in the metal trades. Designed for students in certificates and degrees in the vocational fields other than welding. Lab hours are required for this course.

Prerequisites: None

WELD 141 SMAW - Stick Welding with E7018**1-10 credits | REEL****Quarter(s): S, F, W, Sp**

Presents the fundamentals of stick welding of mild steel with 7018 electrodes, in all welding positions for numerous weld joints. Explains the fundamentals of the carbon arc, oxy-fuel, and plasma arc cutting processes. Explores key welding and fitting techniques through project-based print reading. Covers selected cutting processes and equipment used in the metal trades. This is the first course recommended for students seeking a welding certificate or degree. Lab hours are required for this course.

Prerequisite: None

WELD 142 Advanced SMAW - WABO
1-10 credits | REEL**Quarter(s): S, F, W, Sp**

Expands on the fundamentals of stick welding of mild steel with 7018 electrodes. Students work towards a 2-position WABO plate certification weld test on 1-inch plate. Emphasizes competency in the stick welding process by following blueprints to complete real-world projects. Second course recommended for students seeking a welding degree (not necessary for welding certificate). Lab hours are required for this course.

Prerequisites: WELD 141 or Instructor Permission

WELD 143 SMAW - Stick Welding with E6010**1-10 credits | REEL****Quarter(s): S, F, W, Sp**

Presents the fundamentals of stick welding of mild steel with 6010 electrodes in all welding positions for numerous weld joints. Explores key welding and fitting techniques through project-based print reading. Covers selected cutting processes and equipment used in the metal trades. Third course recommended for students seeking a welding degree (not necessary for welding certificate). Lab hours are required for this course.

Prerequisites: WELD 142 or Instructor Permission

WELD 158 Welding Theory and Fabrication**5 credits | REEL****Quarter(s): Sp**

Covers theoretical and practical applications of welding processes and metal fabrication. Work on project is required outside of class. Lab hours are required for this course.

Prerequisite: WELD 141 or instructor permission

WELD 241 FCAW-G - Dual Shield Wire Feed Welding with E71T-1**1-10 credits | REEL****Quarter(s): S, F, W, Sp**

Presents the fundamentals of wire feed welding of mild steel with E71T-1 dual shield 0.045-inch electrode wire in all welding positions for numerous weld joints. Explores key welding and fitting techniques through project-based print reading. Covers selected cutting processes and equipment used in the metal trades. Fourth course recommended for students seeking a welding degree OR the second course for welding certificate. Lab hours are required for this course.

Prerequisites: None

WELD 242 Advanced FCAW-G - WABO**1-6 credits | REEL****Quarter(s): S, F, W, Sp**

Expands on knowledge and skills of wire feed welding of mild steel with E71T-1 dual shield 0.045" electrode wire in all welding positions for numerous weld joints. Prepares for 2-position WABO plate certification weld test on 1" plate. Expands on key welding and fitting techniques through project-based print reading. Fifth course recommended for students seeking a welding degree (not necessary for welding certificate). Lab hours are required for this course. Prerequisites: WELD 241 or Instructor Permission

WELD 243 GMAW - Solid Wire Feed Welding with ER70S-6 and ER5356**1-6 credits | REEL****Quarter(s): S, F, W, Sp**

Presents wire feed welding of mild steel with ER70S-6 solid 0.035" electrode wire and ER5356 aluminum in all welding positions for numerous weld joints. Expands on key welding and fitting techniques through project-based print reading. Presents selected cutting processes and equipment used in the metal trades. Sixth course recommended for students seeking a welding degree OR third course for welding certificate. Lab hours are required for this course. Prerequisite: WELD 241 or Instructor Permission

WELD 255 GTAW - Tig Welding with ER70S-6 and ER5356**1-10 credits | REEL****Quarter(s): S, F, W, Sp**

Covers the fundamentals of tig welding of mild steel with ER70S-6 and aluminum welding with ER5356, in all welding positions for numerous weld joints. Explores key welding and fitting techniques through project-based print reading. Presents selected cutting processes and equipment used in the metal trades. Seventh and final course for students seeking a welding degree (course not necessary for welding certificate). Lab hours are required for this course. Prerequisites: None

WELD 288 Cooperative Work Experience**1-15 credits | REEL****Quarter(s): S, F, W, Sp**

Provides work-based learning experience in a specific program of study. Individualized student outcomes are developed, focusing on behaviors that contribute to workplace success. Prerequisites: Instructor or Cooperative Education Coordinator permission Concurrent requirements: COLL 289 or BUS 294 must be taken prior to or concurrent with this course.

WELD 299 Independent Study**1-10 credits****Quarter(s): S, F, W, Sp**

Offers individualized learning opportunities for knowledge or skill development. Content and expectations are established between the student and instructor, and documented in an Independent Study contract. Prerequisites: By instructor permission only.

WELD 60 WABO Exam Preparation**1-6 credits | REEL****Quarter(s): F, W, Sp**

Provides focused studies toward advanced welding techniques in preparation for the WABO (Washington Association of Building Officials) welder certification test. This course is a prerequisite for WELD 070 and 075 (WABO test courses). Passing a WABO test is required for AAS degree in Welding. Lab hours are required for this course.

Prerequisites: Instructor permission required to enroll.

WELD 70 Welding Certification (WABO Retest)**0 credit****Quarter(s): S, F, W, Sp**

Provides WABO testers the opportunity to do a complete or partial retest if initial attempts to certify welds did not pass inspection. This course is a program requirement. Successful completion of the WABO certification exam is required for graduation.

Prerequisites: WELD 060 or Instructor permission

WELD 71 Welding Support I**1 credit****Quarter(s): F**

Introduces shop safety practices and common welding techniques for related curriculums. The common welding techniques addressed will include oxy/fuel cutting and brazing, and basic welding. Concurrent enrollment in WELD 105 required.

Prerequisite: None

WELD 72 Welding Support II**1 credit****Quarter(s): W**

Introduces shop safety practices and common welding techniques for related curriculums. The common welding techniques addressed will include oxy/fuel cutting and brazing, basic arc welding, and wire feed welding. Concurrent enrollment in WELD 105 required.

Prerequisite: None

WELD 75 Welding Certification (WABO Exam)**0 credit**

Provides WABO testing with the following processes: SMAW, FCAW-S, FCAW-G, GMAW on plate, pipe, or light gauge materials. This course is a program requirement. Successful completion of the WABO certification exam is required for graduation.

Prerequisites: WELD 060 or Instructor permission

WorkFirst (WFC)**WFC 89 Investigations Into Economic Class In America****5 credits**

Provides WorkFirst students a means of understanding individuals and society through the lens of economic class. A greater understanding of information about hidden rules and resources develops success skills and enables students to understand and operate effectively with diverse populations that are found within the college community and in the workplace.

Prerequisites: None.

WFC 99 Integrated College Experience (ICE)**1-12 credits****Quarter(s): S, F, W, Sp**

Integrated College Experience (ICE) is a WorkFirst Life Skills Core course designed to transition WorkFirst-qualified participants to classes at Lower Columbia College. This Washington State mandated component of WorkFirst consists of a twelve week module that provides participants with the skills to meet the demands of everyday life, education, and employment through performance and outcomes-based coursework that integrates communication, technology and basic skills.

Prerequisite: Must be enrolled in the WorkFirst program.

Youth Reengagement (YR)

YR 11 Educational Interview**1-20 credits****Quarter(s): S, F, W, Sp**

Develop and monitor a personal plan of action to reach personal, educational, and workplace goals through an orientation to the college community and the Transitional Studies program, resources, and services.

Prerequisites: CASAS test

YR 13 Educational Interview II**1-20 credits****Quarter(s): S, F, W, Sp**

Develop and monitor a personal plan of action to reach personal, educational, and workplace goals through an orientation to the college community and the CCP program, resources, and services.

Prerequisites: Casas completion

YR 15 Educational Interview III**1-20 credits****Quarter(s): S, F, W, Sp**

Develop and monitor a personal plan of action to reach personal, educational, and workplace goals through an orientation to the college community and the CCP program, resources, and services.

Prerequisites: CASAS test

YR 17 Educational Interview IV**1-20 credits****Quarter(s): S, F, W, Sp**

Develop and monitor a personal plan of action to reach personal, educational, and workplace goals through an orientation to the college community and the CCP program, resources, and services.

Prerequisites: CASAS Completion

YR 21 I-BEST Support**1-20 credits****Quarter(s): S, F, W, Sp**

A high adult secondary education level Open Doors course for students who are currently working or preparing to work in a specific job area and who are enrolled in an I-BEST program. The course integrates math, reading, writing, listening and speaking skills with the linguistic requirements of the job. The content of this course varies each time it is offered. It may include English language skills for specific content areas such as certification for childcare workers, English language skills for Health Services, etc.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236 and higher or instructor approval.

YR 23 I-BEST Support II**1-20 credits****Quarter(s): S, F, W, Sp**

A high adult secondary education level Open Doors course for students who are currently working or preparing to work in a specific job area and who are enrolled in an I-BEST program. The course integrates math, reading, writing, listening and speaking skills with the linguistic requirements of the job. The content of this course varies each time it is offered. It may include English language skills for specific content areas such as certification for childcare workers, English language skills for Health Services, etc.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236 and higher or instructor approval.

YR 25 I-BEST Support III**1-20 credits****Quarter(s): S, F, W, Sp**

A high adult secondary education level Open Doors course for students who are currently working or preparing to work in a specific job area and who are enrolled in an I-BEST program. The course integrates math, reading, writing, listening and speaking skills with the linguistic requirements of the job. The content of this course varies each time it is offered. It may include English language skills for specific content areas such as certification for childcare workers, English language skills for Health Services, etc.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236 and higher or instructor approval.

YR 27 I-BEST Support IV**1-20 credits****Quarter(s): S, F, W, Sp**

A high adult secondary education level Open Doors course for students who are currently working or preparing to work in a specific job area and who are enrolled in an I-BEST program. The course integrates math, reading, writing, listening and speaking skills with the linguistic requirements of the job. The content of this course varies each time it is offered. It may include English language skills for specific content areas such as certification for childcare workers, English language skills for Health Services, etc.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236 and higher or instructor approval.

YR 30 CCP Spanish Culture and Language**1-20 credits****Quarter(s): S, F, W, Sp**

Develop basic communication abilities in Spanish. Provide an opportunity for learning about other Spanish speaking cultures. Students practice both speaking and writing with classmates and Native Spanish speakers. Compares and contrasts Latin American and American cultures.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 31 CCP English 098**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 246 and higher

YR 32 CCP Math Level B**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low intermediate basic education math course.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 33 CCP Lab Science**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a High Adult Secondary Education English reading and writing course contextualized in science lab.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 34 CCP Civics**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a High Adult Secondary Education English reading and writing course contextualized in government.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 35 Chemistry**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a High Adult Secondary Education English reading and writing course contextualized in chemistry.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 37 CCP COLL 101**1-20 credits****Quarter(s): S, F, W, Sp**

Explores foundational issues for success in college, including an introduction to campus resources, college culture, and digital communication skills. Develops behaviors and attitudes characteristic of successful students; develops basic reading, study, and test-taking strategies; and creates a plan for success during the next quarter and beyond. Identifies and assesses individual strengths, skills, and characteristics in order to create personal, academic, and career goals; explore and research possible career pathways to achieve goals.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236 and higher or instructor approval.

YR 38 CCP Health**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills while focusing on health and nutrition in order to enhance their personal, social, and workplace environments in a health course. Students will gain an understanding of the effects nutrition and environmental factors have on the body and how to set personal goals to improve their overall health.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 40 CCP Electives**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a Youth Reengagement Electives course.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 41 CCP English**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a High Adult Secondary Education English reading and writing course.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 43 CCP Science**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a High Adult Secondary Education English reading and writing course contextualized in science.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 44 CCP US History**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a high adult secondary US History education course. Focuses on the causes and effects of social, cultural, political, intellectual and economic change over the years in the United States. Examines the foundation of US government: key political ideas, theories, processes, and institutions.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 45 CCP Washington State History**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen English communication skills in order to enhance their personal, social, and workplace environments in a high adult secondary education Washington State history course.

Provides a social, political, economic history of the Pacific Northwest with particular emphasis on the State of Washington, including Native American history and gender/ethnic history.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 46 CCP Current World History**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills in order to enhance their personal, social, and workplace environments in a Contemporary History course. Focuses on current world events, issues and problems. Highlights recent historical events and examines the causes and effects on geopolitics, environments, and population.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 47 CCP Occupational**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen a student's communication, technology, and/or interpersonal skills in order to enhance their personal, social, and workplace environments in an Open Doors Occupational Education course. The course reflects knowledge gained through prior life experience, occupational achievement, or demonstrable skill and can be quantified by writing, display and evidence collection.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 48 CCP Fitness**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills while focusing on health, nutrition, and fitness in order to enhance their personal, social, and workplace environments in a Fitness Education course. Students will gain an understanding of the effects exercise and environmental factors have on the body and how to set personal goals to improve their overall health.

Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 49 CCP Fine Arts**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthen basic academic skills while focusing on artistic understanding and appreciation in order to enhance the personal, social, and workplace environments of students in a Fine Arts course. Students will gain a deeper understanding of the arts and how to evaluate the impressions gained by exposure to different forms of media. Prerequisites: CASAS Appraisal Exam, CASAS Appraisal score of 246 to 255, or instructor permission

YR 51 Contextualized Integrated Eng & Math**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education integrated course (integrating reading, writing, math, and technology). Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher or instructor approval

YR 53 Contextualized Integrated Eng & Math II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education integrated course (integrating reading, writing, math, and technology). Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher

YR 55 Contextualized Integrated Eng & Math III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education integrated course (integrating reading, writing, math, and technology). Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher or instructor approval

YR 57 Contextualized Integrated Eng & Math IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education integrated course (integrating reading, writing, math, and technology). Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher

YR 71 Contextualized English**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education reading and writing course. Prerequisites: CASAS appraisal exam and CASAS appraisal score of 236-245

YR 73 Contextualized English II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 236-245

YR 75 Contextualized English III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 236-245

YR 77 Contextualized English IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 236-245

YR 79 CCP Math 79/Level C**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 221-235 or instructor approval

YR 81 Pre-College English**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 246 and higher or instructor approval

YR 83 Pre-College English II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 246 and higher or instructor approval

YR 85 Pre-College English III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 246 and higher or instructor approval

YR 87 Pre-College English IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education reading and writing course.

Prerequisites: CASAS appraisal exam and CASAS appraisal score of 246 and higher or instructor approval

YR 88 CCP Math 88/Level D**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245 or instructor approval

YR 97 CCP Math 97/D Enhanced**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245 or instructor approval

YR 98 CCP Math 98/Level E**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher or instructor approval

YRNG 61 CCP Math Level B**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low intermediate basic education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 201-220

YRNG 63 CCP Math Level B II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low intermediate basic education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 201-220

YRNG 65 CCP Math Level B III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low intermediate basic education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 201-220

YRNG 67 CCP Math Level B IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher

YRNG 71 CCP Math 78/Level C**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 221-235

YRNG 73 CCP Math 78/Level C II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 221-235

YRNG 75 CCP Math 78/Level C III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 221-235

YRNG 77 CCP Math 78/Level C IV**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high intermediate math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 221-235

YRNG 81 CCP Math 88/Level D**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245

YRNG 82 CCP Math 87/D Enhanced**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245

YRNG 83 CCP Math 88/Level D II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245 or instructor approval

YRNG 84 CCP Math 87/D Enhanced II**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245

YRNG 85 CCP Math 88/Level D III**1-20 credits****Quarter(s): S, F, W, Sp**

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.

Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245 or instructor approval

**YRNG 86 CCP Math 87/D Enhanced III
1-20 credits**

Quarter(s): S, F, W, Sp

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245

**YRNG 87 CCP Math 88/Level D IV
1-20 credits**

Quarter(s): S, F, W, Sp

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245 or instructor approval

**YRNG 88 CCP Math 87/D enhanced IV
1-20 credits**

Quarter(s): S, F, W, Sp

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a low adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 236-245

**YRNG 91 CCP Math 98/Level E
1-20 credits**

Quarter(s): S, F, W, Sp

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher

**YRNG 93 CCP Math 98/Level E II
1-20 credits**

Quarter(s): S, F, W, Sp

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher

**YRNG 95 CCP Math 98/Level E III
1-20 credits**

Quarter(s): S, F, W, Sp

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher

**YRNG 97 CCP Math 98/Level E IV
1-20 credits**

Quarter(s): S, F, W, Sp

Strengthens basic academic skills in order to enhance personal, social, and workplace environments in a high adult secondary education math course.
Prerequisites: CASAS Appraisal Exam and CASAS Appraisal score of 246 and higher