Seattle Central College Course Descriptions

Brief descriptions of courses offered at Seattle Central College can be found in this document. Courses are updated on an ongoing basis. Contact the IEP office if you have questions about a specific course offering listed.

How to Read Course Descriptions

Course Prefix

Course Number

ACCT 130

Intro to Accounting/Bookkeeping III

Accounting for service and manufacturing activities including budgeting and cost-revenue analysis for decision-making. Prereq: ACCT 110 and 120.

(5)

Credit Hours

Common Course Numbering (&)

All Washington community colleges, including Seattle Central College, are using a Common Course Numbering (CCN) System. The system identifies courses that are equivalent at community colleges across the state to make it easier for students to transfer between two-year colleges.

Courses identified with an ampersand (&) are part of the CCN system (examples: ACCT& or HIST&). However, courses without an “&” will continue to transfer between two-year and four-year colleges under individual Direct Transfer Agreements (DTA), as in the past.
## Course/Prefix Index

### PREFIX to Course

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Course/Prefix Index

**NANO** Nanotechnology
**NME** New Media
**NTR** Nutrition
**NUR** Nursing

**OCEA** Oceanography
**OPH** Opticianry

**PEC** Physical Education
**PHA** Pharmacy Technician
**PHIL** Philosophy
**PHO** Photography, Commercial
**PHYS** Physics
**POLS** Political Science
**PSG** Psychology (SVI)
**PST** Pastry Arts — see Culinary Arts
**PSYC** Psychology
**PTE** Professional Technical Teacher Education B.A.S.

**RCP** Respiratory Care
**REL** Religion
**RES** Real Estate

**SBST** Sustainable Building Science Technology B.A.S.
**SCI** Science
**SEN** Senior Adult Education
**SHS** Social & Human Services
**SLN** Service Learning
**SMG** Supervision & Management
**SOC** Sociology
**SPAN** Spanish — see Languages & Literature
**SPS** Audiology
**SSC** Social Sciences
**SURG** Surgical Technology
**SUST** Sustainability
**SWF** Social Welfare

**TDR** Drafting: Architectural Engineering Drafting & Engineering Graphics & Design Technology

**UGR** Undergraduate Research

**VIET** Vietnamese — see Languages & Literature

**WCO** Wood Construction
**WEB** Web Design & Development — see IT
**WFT** Welding Fabrication Technology
**WIN** Wine Industry Training
**WMN** Women Studies

**CHEM** Chemistry
**CFS** Child & Family Studies
**CHIN** Chinese — see Languages & Literature
**CMST** Communication
**CHED** Community Health Education B.A.S.
**CPP** Community Policing
**CSC** Computer Science
**CTN, ICT** Computing Technology
**CWE** Cooperative Work Experience
**COR** Core Employment Readiness (SVI)
**COS** Cosmetology (SVI)
**BAK** Culinary Arts
**CUL** Culinary Arts
**HOS** Culinary Arts
**BOS** Business Office Skills (SVI)
**BUS** Business
**MTA** Building Trades Pre-Apprentice (SVI)
**BCT** Business Computer Technology (SVI)

**CDN** Chemical Dependency — see Social & Human Services
**ABD** Accounting
**ACCT** Accounting
**ABE, HSC** Adult Basic Education
**ACM, AMT** Aerospace Composite Materials
**AHE, AHI, AHL (SVI)** Allied Health
**AHD (SVI)** Allied Health Dental
**AME** American Ethnic Studies
**AMSL** American Sign Language — see Languages & Literature
**ANTH** Anthropology
**APPRL** Apparel Design & Development
**AD** Application Development B.A.S.
**ABS** Applied Behavioral Science B.A.S.
**ARAB** Arabic
**TDR** Architectural Engineering Drafting — see Drafting
**ART** Art
**ASTR** Astronomy
**SPS** Audiology
**ABR** Auto Body Collision Repair
**AUT, MVM** Automotive Technology
**AMT** Aviation Maintenance Technology

**ADH** Dental Assistant (SVI)
**AHD, DHY** Dental Hygiene B.A.S.
**HDM** Diesel & Heavy Equipment Technology
**TDR** Drafting — Architectural/Engineering Design Technology
**DRMA** Drama

**CCE, CFS, ECED** Early Childhood Education
**ECON** Economics
**EDUC** Education
**EET** Electronics Technology
**AHE** Emergency Medical Technician
**ENGR, MET, MEC** Engineering
**TDR** Engineering Graphics & Design Technology — see Drafting
**ENGL, ESL** English — see Languages & Literature
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Abroad/Study Abroad

ABD 150 (1-30)
Study Abroad

Students studying abroad through approved Seattle College District programs register for ABD 150, similar to the Learning/Coordinated Studies Programs. Once the student’s enrollment schedule is confirmed, the course credits are broken out into discrete courses. All courses are marked “STDY ABD” in the course description. Study Abroad courses not offered in the Seattle College District are designated with “900” series of numbers. These courses may be used to satisfy distribution requirements in the Associate Degree.

Accounting

NOTE: While ACCT& 201, 202 and 203 generally transfer to four-year institutions, some institutions may also accept other accounting courses. Business administration students should check in advance with the four-year institutions of their choice to determine the transferability of any Accounting course. Non-native or ESL students at North Seattle should see their advisor for prerequisites.

ACCT & 201 (5)
Principles of Accounting I
Defines basic accounting concepts, principles and procedures for recording business transactions and preparing financial accounting reports. Recommended: ACCT 110 or sophomore standing (S).

ACCT & 202 (5)
Principles of Accounting II
Examines application of basic accounting concepts, principles and procedures to more complex business situations in a corporate setting. Prereq: ACCT & 201 with a minimum GPA of 2.0 or permission.

ACCT & 203 (5)
Principles of Accounting III
Analysis of accounting data as part of the managerial process of planning, decision-making and control. Concentrates on economic decision-making in enterprises. Prereq: ACCT 120, ACCT & 202 or permission (C,N,S).

ACCT 298 (1-5)
Special Topic: Accounting
Seminar on selected topics or activities in accounting. Prereq: Permission.

ACCT 299 (1-5)
Independent Study: Accounting
Independent study of selected accounting topics. Prereq: Permission.

Adult Basic Education

ABE 010 (15)
ABE Level 1
Basic course in reading, writing and arithmetic designed for the non-reader. Covers phonics, structure, word recognition, and reading and writing of simple sentences. Math includes addition, subtraction, multiplication, and division of whole numbers. First and second grade reading level. Entrance by appropriate placement tests.

ABE 012 (15)
ABE Level 1 – Communication Skills
Learn to recognize and comprehend basic sight words and write short, simple sentences using those words. Learn to write the alphabet from memory; write name, address, and phone number and complete simple forms.

ABE 014 (15)
ABE Level 1 – Computers
Computer lab class to provide students in the ABE program with an opportunity to practice basic skills learned in class or learn new skills independently. Students have access to popular word processing and spreadsheet programs as well as specialized basic skills software. Keyboarding and computer literacy skills are emphasized for those new to personal computers.

ABE 019 (1-6)
Intro to Job Skills
Supports basic skills and English as a Second Language (ESL) students engaged in unpaid internships in the workplace. Topics include time management relationships with supervisors and coworkers and work styles.

ABE 020 (1-15)
ABE Level 2
Covers reading and writing. Review and apply language skills, correct usage and spelling.

ABE 021 (1-15)
ABE Level 2 – Math
Covers addition, subtraction, multiplication and division of whole numbers.

ABE 022 (1-15)
ABE Level 2 – Communication Skills
Learn to participate in groups, recognize learning styles, recall and restate information. Covers reading using simple, familiar materials such as menus, signs, work schedules. Learn writing by completing personal information on forms, copying text and writing in simple sentences.

ABE 024 (1-15)
ABE Level 2 – Computers
Computer lab class provides an opportunity to practice basic skills learned in class or learn new skills independently. Use popular computer programs as well as specialized basic skills software. Emphasizes keyboarding and computer literacy skills for those new to personal computers.

ABE 030 (1-15)
ABE Level 3
Covers reading, writing and communication skills for review of basic grammar, punctuation and spelling. Concentrate on reading comprehension, main idea, vocabulary development, making inferences, Covers single paragraph writing. Prereq: ABE 020 (N,C) or division placement test.

ABE 031 (1-15)
ABE Level 3 – Math
Review of whole numbers. Concentration on fractions and decimals. Intro to percents. Prereq: ABE 021 or division placement test (N,C).

ABE 032 (1-15)
ABE Level 3 – Communication Skills
Covers reading, writing and communication skills for review of basic grammar, punctuation and spelling. Concentrate on reading comprehension, main idea, vocabulary development, making inferences. Covers single paragraph writing. Prereq: ABE 031 or division placement test (C).

ABE 034 (1-5)
Computer Assisted ABE Level 3
More advanced computer-assisted practice in reading, writing and math. Learn from textbooks, fiction, policies and procedures manuals, and purchase agreements. Write résumés, reports and formal letters. Compute percentages, ratios, proportions, simple formulas and interpret graphs and charts.

ABE 040 (1-15)
ABE Level 4
Focuses on reading comprehension, making inferences, recognizing fact and opinion, vocabulary development, basic sentence patterns, paragraphs, punctuation, capitalization and correct word usage. Covers multi-paragraph essays. Prereq: ABE 030 or division placement test (N,C).
ABE 041 (1-15)
ABE Level 4 – Math
Review of ratio and proportion, percents and measurement. Prereq: ABE math level 3 or division placement test (N,C).

ABE 042 (1-15)
ABE Level 4 – Communication Skills
Further development of skills in reading, vocabulary, grammar and multi-paragraph essays. Prereq: ABE 030 or division placement test (N,C).

ABE 044 (1-15)
ABE Level 4 – Computers
More advanced computer-assisted practice in reading, writing, math and test-taking skills. Instructional activities will improve general reading, writing, math and test-taking skills. Take practice tests and work with instructor until ready to take the college division placement test (C,S). Covers the basics of Microsoft Office applications. Self-paced with a high level of student/teacher interaction (N).

ABE 049 (1-15)
Basic Skills Support Prof/T
Provides specific support to assist students in completing Professional-Technical programs and building job-related language skills. Coreq: Enrollment in a Professional-Technical program.

ABE 054 (1-15)
Computer Assisted ABE 5
Use computers to improve basic skills of reading, writing and math. Prepare to take the College Placement Test and receive scores high enough to enter developmental education courses in English and math. Take practice tests and work with instructor until ready for the actual test.

ABE 060 (1-15)
ASE – Asset/Compass Prep
Preparation to pass exams needed to enter a college program.

ABE 061 (1-15)
ASE – Math Level 6
Preparation to pass the math portion of the COMPASS exams.

ABE 062 (1-15)
ASE – Communication Level 6
Preparation to pass the Communications portion of the COMPASS exam needed to enter a college program. Emphasizes effective essay writing, reading college text and adapting to the college culture.

ABE 064 (1-15)
ASE – Computer Assisted Level 6
Advanced computer-assisted skill-building in reading, writing, math and test-taking. Prepare for the COMPASS Test. Take practice tests and work with instructor until ready to take the actual test.

ABE 070 (1-3)
ED Interview for ABE/GED
Helps ABE/GED students at all competency levels identify their current abilities, characteristics, styles and readiness to learn. Intro to campus resources.

ABE 071 (1-3)
Educational Planning
Provides students with information needed for college readiness during enrollment in ABE/GED Math or ABE/GED Communication courses. Prereq: Enrollment in ABE, pre-GED or GED class, placement test score, or instructor permission.

ABE 079 (5)
College Transitional English
The focus of this class is on the four basic communication skills: reading, writing, listening and speaking. The aim is to prepare students for the 090 level developmental English or ESL classes. The class meets daily, Monday through Friday. Students who enroll as College Transfer will earn 5 credits. Prereq: Students may be referred by intake testing (ASSET or ESL assessment), by counselor or instructor assessment or by self-selection.

HSC 041 (1-5)
Fine Arts Portfolio
Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for fine arts credit toward a high school diploma.

HSC 042 (1-5)
Health Portfolio
Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for health credit toward a high school diploma.

HSC 043 (1-5)
Language Arts Portfolio
Creation of a portfolio that demonstrates the mastery of the learning outcomes required by the Washington State Board of Education for language arts credit toward a high school diploma.

HSC 044 (1-5)
Lab Science Portfolio
Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for lab science credit toward a high school diploma.

HSC 045 (1-5)
Physical Education Portfolio
Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for physical education credit toward a high school diploma.

HSC 046 (1-5)
Math Portfolio
Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for math credit toward a high school diploma.

HSC 047 (1-5)
Washington History Portfolio
Creation of a portfolio that demonstrates mastery of the learning outcomes required by the Washington State Board of Education for Washington State History and Government. Course completion will fulfill the Washington State graduation requirement of 0.5 high school credit in WA State History and Government.

HSC 091 (1-5)
EDP Skills Enhancement I
Assessment portion of the National External Diploma Program (EDP). Measures reading, writing and math skills. Work individually with an instructor to identify skills needed for successful completion of the diploma program. www.nedp.org

HSC 092 (1-5)
EDP Skills Enhancement II
Project portion of the National External Diploma Program (EDP). Working with an instructor, complete five projects that demonstrate skills in 65 generalized competencies, including communication and computation. Demonstrate occupational preparedness by completing a sixth individualized project based on employment or other specific experiences. Must complete these projects with 100% accuracy.
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**Allied Health**

Includes courses relevant to undergraduate level Emergency Medical Technician (EMT), Medical Assisting, Medical Office Assisting, Medical Transcription, Phlebotomy and Surgical Technician and to Bachelor of Applied Science (B.A.S.) degrees in Allied Health. For additional B.A.S. course listings, look under track titles:

Community Health Education, page 9.
Dental Hygiene, page 25.
Healthcare Services Management, page 10
Respiratory Care, page 77.

**AHE 110 (4)**

Medical Orientation
Standards of conduct and responsibilities in medical legal, ethical, and bioethical issues.

**AHE 111 (12)**

Nursing Assistant Certified
Covers instruction and hands-on experience in basic nursing care skills and supervised clinical training in a long-term care facility. Preparation for WA State Nursing Assistant Certified examination. Current Healthcare CPR, First Aid and HIV/AIDS are required prior to clinical, and are scheduled as separate courses.

**AHE 113 (15)**

Nursing Assistant
This course provides instruction and hands-on experience in basic nursing care skills including First Aid, CPR, and HIV/AIDS and supervised clinical training in a long-term care facility. Instruction will also be provided in student success and career transition skills. After successful completion of the Nursing Assistant Program, students are eligible to sit for the State of Washington NAC exam for certification as a Nurse Assistant.

**AHE 117 (1)**

Medical Terminology I
Intro to medical terminology. Emphasizes vocabulary and knowledge to communicate with health care team. Prereq: Enrollment in Surgical Technology.

**AHE 120 (4)**

Computers in Medical Office
Introduction to computer applications within a medical office. Concepts of PC/DOS, basic word processing, and data entry procedures will be taught. There will be opportunity to practice concepts learned, through planned exercises.

**AHE 126 (2)**

Essential Skills Health
Learn core skills applicable to all health disciplines. Each healthcare program chooses which modules are required.

**AHE 127 (1)**

Medical Terminology II
Continuation of AHE 117. Terminology of the circulatory/lymphatic, urinary, reproductive and musculoskeletal systems and their pathophysiology. Prereq: Enrollment in Surgical Technology.

**AHE 128 (4)**

Intro to Healthcare
Covers elements of professionalism, ethical principles and basic assessment techniques for allied health practitioners in Washington state. Includes role of the healthcare practitioner, health history taking, vital signs assessment, patient management and infection control.

**AHE 129 (1)**

Intro Healthcare Applied Practice
Covers professionalism, ethical principles and basic assessment techniques, including patient health history, vital signs assessment, patient management, infection control, and the role of the healthcare auxiliary.

**AHE 137 (1)**

Medical Terminology III
Continuation of AHE 127. Terminology of the respiratory, integumentary, endocrine, nervous systems and their pathophysiology. Prereq: Enrollment in Surgical Technology.

**AHE 140 (10)**

Central Supply/Instrument Technician
For students interested in being a certified Central Supply/Instrument Technician. Addresses infection control, supplying and processing and distribution of supplies. Gain knowledge in safety, inventories, interpersonal skills, communication, interdisciplinary teams, professionalism and ethics.

**AHE 150 (0.5)**

HIV/AIDS Education
Meets requirements for healthcare professionals under RCW 18.130. Covers etiology and epidemiology of HIV, transmission and infection control, testing and counseling, clinical manifestations and treatment and psychosocial issues. Approved by the Washington State Department of Licensing.

**AHE 151 (1)**

Standard Precautions/FA
Covers blood-borne pathogens and infections that students may be exposed to in the healthcare setting, methods of prevention, and regulations surrounding workplace safety. Learn about equipment and supplies and practice using them.

**AHE 152 (1)**

Health Care Provider CPR
American Heart Association Certificate
Health Care Provider CPR is for those in or entering health care with patient contact. Covers skills competency for infant, child and adult CPR that might be needed in the professional healthcare setting. Certificate awarded on completion. Prereq: Permission.

**AHE 165 (3)**

Medical Terminology I
Fundamentals of medical terminology, with emphasis on basic rules, vocabulary building, abbreviations and knowledge of medical terms relating to body systems and medical specialties.

**AHE 166 (3)**

Medical Terminology II
Continuation of AHE 165. Prereq: AHE 165.

**AHE 167 (3)**

Medical Terminology III
A continuation of AHE 166. Prereq: AHE 166.

**AHE 197 (1-5)**

Work Experience: Allied Health
Allows students to gain work experience directly related to their major of study. Provides participating students with supervised work experience in an individualized learning environment. Prereq: Employment in field.
AHE 198 (1-5)  
Work Experience: Allied Health  
Integrates classroom study with employment. Based on principle that one learns not only through academic achievement but also through practical experience. Prereq: permission.

AHE 199 (1-5)  
Work Experience: Allied Health  
Allows students to gain work experience in Allied Health field. Integrates classroom study with employment. Prereq: permission

AHE 202 (1)  
RC Orient Intro to the Respiratory Care Program  
Covers curriculum, policy, clinical procedures, professional outlook and study and library skills.

AHE 209 (2)  
Intro Respiratory Care  
Explores the respiratory care profession. Focusses on historical development and the role of the respiratory care practitioner. Emphasis on professionalism, ethical thought, death and dying, and working in a multicultural environment.

AHE 213 (2)  
RC Clinical Assessment  
This course is a study of the concepts and principles by which disease alters the normal function of the cardiopulmonary system. The main emphasis will be on cardiopulmonary assessment. Students will learn to analyze clinical data and synthesize patient case data into a formal assessment. Further emphasis will be placed on development of logic and reasoning for an advanced Respiratory Care Practitioner (RCP). Prereq: Permission.

AHE 215 (2)  
Pharm Basic Respiratory Care Pharmacology  
Introduces the learner to foundational principles of the study of pharmacology. Learners will also begin their study of pharmacologic agents with medications used universally in Respiratory Care to treat primary respiratory disorders. This course is directed at adding to the learners' knowledge of respiratory care and the performance of the skills needed to safely deliver medications as adjuncts to the delivery of Respiratory Care. Prereq: Permission.

AHE 217 (5)  
CP&P  
This course is designed to provide an in-depth investigation into the structure and function of the respiratory and cardiovascular systems of the human body. The interdependence of the two systems will be emphasized and the physiology of respiration will be examined in detail. Also covers multiple body systems and their interplay with the respiratory system under normal and abnormal conditions. Prereq: Permission.

AHE 218 (4)  
BASTHAP  
This course is an introduction to the procedures used to assess and treat common respiratory diseases. Emphasis is on knowledge and skills necessary to safely and effectively apply patient assessment techniques; body mechanics, medical gas therapy, oxygen therapy devices, aerosol and humidity therapy, hyperinflation therapy, chest physiotherapy, and airway clearance techniques. Prereq: Permission.

AHE 219 (1)  
BTAE&T  
An introduction to the application of Respiratory Care therapeutics learned in RCP 218. In this class learners will apply theory acquired in RCP 218 using models, simulation and laboratory partners for practice. Focuses on assessment, documentation, communication, medical gas and aerosol therapy, airway clearance, and hyperinflation therapies. Prereq: Permission.

AHE 299 (1-3)  
Allied Health Seminar  
Seminar format to address current trends and issues in allied health occupations.

AHE 301 (5)  
Principles of Healthcare Delivery  
Introduction to U.S. healthcare delivery topics such as purpose, history, components, organization, strengths and weaknesses, and proposed and implemented reforms. Covers current and future challenges of healthcare delivery and the development of healthcare policies to address these challenges. Prereq: Permission.

AHE 330 (5)  
Information Literacy Health  
Introduction to the organization, retrieval, and evaluation of electronic and print information. Overview of college library systems, traditional scholarly resources, and the concepts underlying the research process. Emphasis on information literacy skills specific to the allied health sciences through examination and application of specialized resources. Prereq: Enrollment in a B.A.S. in Allied Health track; ENGL& 102, MATH& 146.

AHE 401 (5)  
Principles of Research  
General principles of research design and methodology with emphasis on applications for allied health practice. Prereq: Permission.

CHED 301 (5)  
Principles of Community Health  
Introduces students to terms, concepts, theories, methods and resources which are related to community and public health issues and designed to improve the health of populations in the United States. Focuses on the role of healthcare workers in various community health settings and organized activities. Emphasis on principals that meet the national standard of practice for all health education specialists.

CHED 304 (5)  
Principles of Higher Ed in Allied Health  
This course reviews adult learning theory, emphasizing practical skills for successful post-secondary teachers and trainers in allied health disciplines. Topics include development of course outlines and syllabi, learning objectives, teaching methods, experiential and non-experiential learning, clinical skills development strategies, professional presentation skills and assessment.
Allied Health
Community Service, Cooperative Ed (B.A.S.)

CMS 197 (3)
Community Service
Provides students with an opportunity to experience volunteerism as a central component of life while enhancing academic and career goals.

CMS 198 (3)
Community Service
Utilizes cooperative education to enable students to experience their commitment to the community. Provides an opportunity for both personal and professional growth, engages students in responsible and challenging actions for the common good, structures opportunities for research and reflection of their experience, involves supervision, monitoring, support, recognition and evaluation to meet course goals and offers participation by and with diverse populations and agencies. Prereq: none

CMS 199 (3)
Community Service
Provides an opportunity for both personal and professional growth, engages students in responsible and challenging actions for the common good, structures opportunities for research and reflection of their experience, involves supervision, monitoring, support, recognition and evaluation to meet course goals and offers participation by and with diverse populations and agencies. Prereq: none

Allied Health
Healthcare Services Management

HSM 301 (5)
Principles of Healthcare Services Management
Covers basic managerial functions of healthcare services such as planning, organizing, leading, and controlling resources to accomplish organizational goals. Prereq: Permission.

HSM 311 (5)
Principles of Healthcare Management
Covers basic managerial functions of healthcare services such as planning, organizing, leading, and controlling resources to accomplish organizational goals. Prereq: Permission.

American Ethnic Studies

AME 150 (5)
America’s Ethnic History
Intro to U.S. history as a multicultural phenomenon. Emphasizes the interaction of American Indian, African, European, Latino and Asian immigrants in the development of the U.S. Focuses on conflict and cooperation in the areas of economics, politics and culture.

AME 151 (5)
Societies & Cultures: U.S.
Intro to contemporary issues in American ethnic and race relations. Emphasizes racism, prejudice, stereotypes and equity issues through an examination of Asian, African and Indigenous Americans. Focuses on diversity of interests and identities within each community.

AME 160 (1-5)
Special Topics in Multicultural Studies
Intro to the continuum of social justice issues that emphasize the role of multicultural collaboration in the establishment and securing of democracy and democratic practice. Considers the forces shaping social change past and present; the role of the individual (change agent); and the personal characteristics and skills required of change agents.

AME 201 (5)
Diversity & Social Justice
Combines theoretical frameworks, practical issues and experiential activities to help students develop skills and identify plans of action in eradicating the multiple forms of social oppression. Use critical analysis as an investigative tool to examine racism, sexism, heterosexism, ableism, classism, religious oppression and aspects of internalized oppression.

American Sign Language

See Languages & Literature, page 48

Anthropology

ANTH& 100 (5)
Survey of Anthropology
Intro to the field of anthropology. Covers biological and cultural anthropology, linguistics and archaeology. Survey of humans over time and space. Includes evolution, ethics, political structure, social structure, economics and communication.

ANTH& 106 (5)
American Mosaic
Examines American culture, implications and consequences through the anthropological lens. Includes race, ethnicity, class, religion, sex, gender and ability. Explores individual experiences and structural patterns. Provides an insightful look at ourselves from anthropological and sociological perspectives. Field trips. May be taken as SOC 102.

ANTH 113 (5)
African
A survey of cultures, languages and social diversities of Africa south of the Sahara. Examines Africa’s role in the contemporary world.

ANTH& 125 (5)
Human Variation
Covers past and present evolutionary forces contributing to variations in human populations. Investigates the biological and social concepts of race.

ANTH 130 (1-5)
World Cultures
Exploration of global cultural variation and traditions in the modern context of international capitalism. Using ethnographic approaches informed by the ideas of cultural relativism and transculturation, considers both Western and non-Western cultures as well as indigenous and industrialized cultures. Prereq: ENGL& 101 with a minimum grade of 2.0.

ANTH 135 (3-5)
Intro Environmental Anthropology
Intro to the relationship between cultures and environments. Explore how humans interact with, adapt to, extract resources from, and modify the environment. Looks at the dynamic between “traditional” and “modern” societies.

ANTH 201 (5)
Contemporary Issues in Anthropology
Analysis of current research on a particular topic in cultural or physical anthropology. Topic varies by quarter; check with instructor for specific course content.

ANTH& 204 (5)
Archaeology
Introduction to the history, methods, and theories of archaeology. Trace and explain the principal lines of cultural evolution in the Old and New Worlds. Discuss the importance of cultural resource management and public understanding and involvement. Prereq: ENGL& 101 with a minimum grade of 2.0 (C).
ANTH& 205 (5)  
**Biological Anthropology**  
Intro to biological and cultural evolution of humans with evidence from fossil and contemporary populations. Examines physical and biological variations of humans past and present. Emphasis on developing a working vocabulary of anthropological terms.

ANTH& 206 (5)  
**Cultural Anthropology**  
Intro to human culture, including social organization, economics, political systems, religion, technology, values, art and language. Cultural perspective focuses on contemporary literate and pre-literate societies and includes both Western and non-Western ways of life.

ANTH& 210 (5)  
**Indians of North America**  
Ethnographic survey of North American native cultures. Examination of historical and contemporary problems regarding legislation, treaties, reservations, fishing rights and education.

ANTH& 216 (5)  
**Northwest Coast Indians**  

ANTH& 228 (5)  
**Cultures of Middle East**  
Multidisciplinary intro to Middle Eastern cultures including social, economic, political and religious factors contributing to the region’s diversity. Exploration of historical and contemporary forces and changing interpretations by both Westerners and Middle Easterners. Prereq: English 101 with a minimum grade of 2.0.

ANTH 250 (5)  
**Applied Social Change**  
Explores social and cultural change historically and comparatively through an anthropological lens. Moves quickly from theory to practice to empower students to create effective and inspiring change-making actions. Change on an individual and structural level are addressed. Intrapersonal and interpersonal awareness are achieved through the practice of various life skills and humanization skills. Prereq: English 101 with a minimum grade of 2.0.

ANTH 275 (5)  
**Medical Anthropology**  
Explores culture, society, medicine and health from a global perspective. Examines biomedical and cross-cultural perspectives of the human body, life, death, well-being and healing.

ANTH 298 (1-5)  
**Special Topics/Anthropology**  
Independent study or fieldwork in anthropology. Periodic meetings with instructor. Prereq: Permission.

ANTH 299 (1-5)  
**Special Problems/Anthropology**  
Small group setting to cover selected topics in anthropology. Prereq: Permission.

**Apparel Design & Development**  
Courses above 100 require completion of all entry requirements to the School of Apparel Design & Development.

APPRL 096 (2)  
**AD&D Skill Development 1**  
For students preparing to enroll in the School of Apparel Design & Development who have little or no sewing or patternmaking experience. Introduction to sewing terms, commercial and production pattern development, layout and cutting, industrial sewing machine operation, and professional construction techniques for basic garments and samples. Prereq: Eligibility ENGL& 101.

APPRL 098 (2)  
**AD&D Skill Development 2**  
For students preparing to enroll in the School of Apparel Design & Development. Intermediate beginners update their sewing machine handling and patternmaking skills. More complex sewing techniques and sample garments are constructed using industrial sewing and pressing equipment. Includes pattern drafting and labeling for production. Prereq: APPRL 096 or permission through successful completion of a skills test and eligibility for ENGL& 101.

APPRL 100 (2)  
**AD&D Skill Development 3**  
Required for enrollment in AD&D. For students with previous sewing and patternmaking experience. Enhance industrial equipment handling skills for sewing and pressing to complete more difficult sewing techniques and sample garments. Covers pattern development of a bodice sloper and proofing methods. This course is a required prerequisite for enrollment into AD&D. Prereq: APPRL 098 or permission through successful completion of a skills test and ENGL& 101 eligibility.

APPRL 101 (4)  
**Construction 1 – Professional Techniques**  
Covers professional techniques and methods to construct samples and garments to professional industry standards. Emphasis on accuracy, use of industrial sewing and pressing equipment, and developing technical specification packages. Prereq: APPRL 100 and program entrance requirements.

APPRL 102 (4)  
**Construction 2**  
Prof Techniques Build on skills from APPRL 101 by producing samples and garments using intermediate construction techniques and meeting industry quality standards. Emphasis on industrial equipment use and proficiency, and enhanced specification package development. Prereq: APPRL 101.

APPRL 103 (4)  
**Construction 3**  

APPRL 111 (4)  
**Patternmaking 1**  
Flat Patternmaking Development of basic production patterns using flat pattern and drafting methods. Focus on fundamental patternmaking practices including cutting, labeling and approaches for pattern manipulations. Prereq: APPRL 100 and program entrance requirements.

APPRL 112 (4)  
**Patternmaking 2**  
Draping Pattern development using draping techniques to generate basic slopers. Combines draping with basic flat pattern manipulations to create patterns for garment designs. Prereq: APPRL 111.
APPRL 113 (4)
Patternmaking 3
Continues development of flat pattern and draping techniques from APPRL 111 and 112. Combines fitting methods, and use of production pattern blocks and pattern modifications to create more complicated garment designs. Prereq: APPRL 112.

APPRL 114 (2)
Patternmaking 4—Pattern Alteration for Fit
Focuses on evaluating and achieving good fit through fit analysis and pattern adjustment and alteration techniques for common body variations. Prereq: APPRL 102 & APPRL 112.

APPRL 130 (2)
Apparel Manufacturing
Survey of the apparel manufacturing business cycle. Includes materials acquisition, production, scheduling, product costing, machine processes and industry standards. Prereq: APPRL 100 and program entrance requirements.

APPRL 131 (3)
Business Practices Fashion
Examines aspects of conducting business in the fashion profession including industry practices, job categories, professional development and business communications. Prereqs: APPRL 101, 111, 130 & 151.

APPRL 141 (2)
Design 1—Principles of Design
Covers the basic design principles of repetition, rhythm, emphasis, harmony, balance, scale and proportion as they relate to garment design. Prereq: APPRL 100 and program entrance requirements.

APPRL 142 (2)
Design 2—Fabric Science Technology
Analyze how fibers, yarns, fabric structure and finish affect fabric characteristics. Studies include textile history, independent research and visual presentation. Prereqs: APPRL 130 and APPRL 151.

APPRL 143 (2)
Design 3—Color And Palette
Investigates color design trends and application in the apparel market. Explores hues, values and saturation and basic color theory. Prereqs: APPRL 142 and APPRL 152.

APPRL 151 (3)
Computer Applications Apparel Design 1
Develop Excel, Illustrator and Photoshop skills for use in the apparel design field. Includes specification development, technical drawing and image editing. Prereq: APPRL 100 and program entrance requirements.

APPRL 152 (3)
Computer Applications Apparel Design 2
Continues building computer skills, terminology and procedure. Gain proficiency in graphics programs commonly used in industry to produce technical drawings and visual presentations. Prereq: APPRL 151.

APPRL 197 (1-5)
Work Experience in Apparel Design
Earn relevant work experience and practical hands-on skills through the completion of an internship in the apparel design and development field. Prereq: Permission.

APPRL 201 (4)
Ready-to-Wear Construction
Construction methods with focus on ready-to-wear and tailored garments. Coordinates with APPRL 211 to execute pattern designs for specific target markets. Prereq: APPRL 103. Coreq: APPRL 211.

APPRL 202 (4)
Active Sportswear Construction
Presents advanced pattern design for ready-to-wear and tailored garments. Employs a variety of methods to produce patterns from blocks, measurements, fashion source material, and line drawings. Coordinates with APPRL 201 to construct pattern designs. Prereqs: APPRL 103 and 113.

APPRL 211 (4)
Pattern Design Ready-to-Wear
An advanced course focused on industry methods and standards for constructing active, technical sportswear, outerwear and accessories. Projects are constructed from patterns designed in APPRL 212. Prereqs: APPRL 201 and 211. Coreq: APPRL 212.

APPRL 212 (4)
Pattern Design—Active Sportswear
Patternmaking for active sportswear and outerwear. Develop patterns from samples and sketches to industry standards and for functionality. Pattern designs are constructed in APPRL 202. Prereq: APPRL 211.

APPRL 221 (4)
Pattern Grading
Covers basic principles of grading garment designs for manufacturing. Produces scaled-up and scaled-down versions of patterns using the shift and grid methods of grading. Prereq: APPRL 103 and 113.

APPRL 222 (4)
Computer Pattern Grading
Explore apparel industry standards and guidelines for pattern sizing for more complex patterns. Intro to using computer-aided technology to size patterns. Prereq: APPRL 221.

APPRL 230 (4)
Portfolio & Resume Development
Survey course of job search and interviewing strategies including production of a professional portfolio and resume targeted for the apparel design and development industry. Prereqs: APPRL 197, 202, 212, 222, 242.

APPRL 241 (4)
Design 4—Print & Pattern
Development of surface designs for fabrics and garment silhouettes. Focus on design methodology, textile pattern and print technology, Photoshop techniques and apparel industry practices. Prereqs: APPRL 143 and APPRL 152.

APPRL 242 (4)
Design 5—Line Design
Explore elements of designing a line of clothing to industry standards. Focus on development of boards for line presentations and design of a clothing line for production in APPRL 270. Prereq: APPRL 241.

APPRL 260 (3)
Fashion History
Survey of key clothing items from major historical periods. Gain tools for communicating clothing concepts and understand current fashion trends. Explore social influences and cultural ideals that impact fashion. Prereqs: APPRL 143, 151 & 152.

APPRL 270 (8)
Final Line Design & Development
Capstone course to produce the line of clothing designed in APPRL 242. Includes pattern development, materials sourcing, garment construction and production of technical specifications. Collaboratively produce the annual fashion portfolio show where final collections and portfolios are on display to industry professionals and the public. Prereqs: APPRL 197, 202, 212, 222, & 242.

APPRL 298 (1-5)
Apparel Design Special Topics
Seminar on selected topics in apparel design and development in an area related to but not offered as part of the regular School of Apparel Design & Development curriculum. Prereq: Permission.
Applied Behavioral Science
Bachelor of Applied Science

Students must be accepted into the program in order to take these courses.

ABS 206 (5)
Tech Writing Applied Tec
Learn to efficiently compose memos, emails, letters of advocacy for clients, reports for court and other authorities, cover letters, case notes, grant proposals and more. Emphasis on using computer applications to produce these and other documentation, while meeting HIPAA (Health Insurance Portability and Accountability Act) and ethical standards. Not required for B.A.S. degree. Prereqs: ENGL& 101, 102 and MIC 101.

ABS 310 (5)
Professionalism-Ethical
Understand the framework for ethical decision-making and the professional ethical principles and codes of various helping professions. Apply concepts to ethical dilemmas in historic and contemporary societal issues.

ABS 320 (5)
Applied Social Psychology
Examine the application of social psychological concepts and systems theory in human service settings including prevention, policy analysis, groups, professional and client relationships, and multi-cultural competence. Prereq: PSYC& 100.

ABS 330 (5)
Info Literacy and Program Assessment
Intro to organization, retrieval and evaluation of electronic and print information: college library systems, networked information systems, traditional scholarly resources, and concepts of research. Examine specialized resources of various Social and Human Services disciplines.

ABS 335 (5)
Human Services Practice
Learn to apply knowledge, professional values, sociocultural dynamics and ethics to theory-based models of practice. Covers assessment, information literacy, planning, practice evaluation and termination.

ABS 340 (5)
Applied Environmental Science
Survey of basic environmental science concepts emphasizing the effect humans have on their environment and the repercussions for living in an impoverished environment. Focus on human population and natural resources, including issues of access and degradation.

ABS 350 (5)
Quantitative Principles
Learn the quantitative organization of data central to scientific research and assessment design in applied behavioral sciences. Prereqs: PSYC& 100, PSYC 217, MATH 098, all with 2.0 or higher.

ABS 360 (5)
Public Policy Analysis
Learn the art and science of providing problem-solving advice to government decision-makers, managers, and citizens in order to influence government processes. Understand theoretical frameworks, problem definition, development of alternative solutions, predicting impact of choices, policy evaluation and modification of policies through policy case studies. Prereq: SHS 103 or Intro to U.S. Government/Public Policy.

ABS 399 (1-5)
Independent Study and Research
Pursue academic and professional areas of interest and possible employment related to applied behavioral science.

ABS 410 (5)
Economic & Political Systems
Explore the nature and scope of political economy by examining its historical evolution. Conduct a comparative analysis of contemporary political and economic systems and learn how public service relates to political economy through taxation and finance. Prereqs: Microeconomics suggested.

ABS 415 (5)
Cross-Cultural Competency
Develop understanding of theory, research and applications pertaining to the process of cross-cultural competency. Examine cultural assumptions, values, perceptual and cognitive orientations, cultural stereotypes, prejudice, ethnocentrism, non-verbal behaviors, language, and meaning systems in cross-cultural interactions between people from diverse cultural and ethnic groups.

ABS 420 (5)
Multicultural Artistic
Examine jazz as both a developing art form and as a social and cultural institution with clearly identifiable roots and traditions. Understand how practitioners have responded to pressing contemporary social circumstances and how jazz provides a model of democracy in action.

ABS 430 (5)
Sociology of Families
Examine the trends, issues, and debates regarding the social construction of families and how changes in families relate to social, economic, global and political changes in the larger social structure. Develop critical thinking and analytic skills by drawing on empirical research, personal histories, current events, and public policy issues. Prereqs: SOC& 101.

ABS 495 (5)
Senior Capstone Project
Demonstrate mastery of learning in the field of Applied Behavioral Science and area of concentration. Evaluate overall educational experience and individual professional direction by integrating experiential learning, coursework, knowledge, and skills, and demonstrating critical thinking, oral presentation, creativity, problem-solving, and writing commensurate with senior level work.

ABS 497 (5)
Advanced Field Placement I
First of two quarters of applied professional work in a community setting consistent with the student's area of interest. Meets requirements for supervised field practice required for licensure and professional accreditation in many professional specialties.

ABS 498 (5)
Advanced Field Placement II
Second quarter of applied professional work in a community setting consistent with the student's area of interest. Meets requirements for supervised field practice required for licensure and professional accreditation in many professional specialties.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title Description</th>
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<tr>
<td><strong>ART 100</strong></td>
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<tr>
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<td>Design</td>
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<td><strong>ART 104</strong></td>
<td>Modern American Art</td>
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<td><strong>ART 105</strong></td>
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<td><strong>ART 111</strong></td>
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<td><strong>ART 117</strong></td>
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<td>Basic Silk Screen Process</td>
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### ART 214 (5)
**Digital Art – Intermediate**
Continuation of ART 210. Further explore fine art and technical aspects of digital composition using vector graphics (such as Adobe Illustrator) and pixel-based (such as Adobe Photoshop) programs. Students will be encouraged to further develop their own visual language. Includes lectures, software demos, digital image making exercises, projects and readings. Prereq. ART 210.

### ART 215 (5)
**Digital Art – Advanced**
Continuation of ART 214. Further explore fine art and technical aspects of digital composition using pixel and vector based software (such as Adobe Creative Suite). Students will be encouraged to further develop their own visual language. Includes lectures, software demos, digital image making exercises, projects and readings. Prereq. ART 214. Software is available on campus. Online students are responsible for obtaining their own software.

### ART 221 (5)
**Ceramic Art**
Beginning basic pottery design and construction. Emphasizes hand building coils and slabs, basic glazing and beginning pot throwing on the potter’s wheel.

### ART 251 (5)
**Art History**
Study of the major forms of visual expression including Paleolithic, Egyptian, Mesopotamian, Greek, Roman and Early Christian periods. Emphasis on European and Middle Eastern art (C).

### ART 252 (5)
**Western Art Survey II**
Continuation of ART 251 but can be taken out of sequence. Emphasis on the Medieval period through the Renaissance focusing on European and Islamic art. Prereq: Recommended ENGL& 101 (C).

### ART 253 (5)
**Western Art Survey III**
Continuation of ART 252 but may be taken out of sequence. Emphasis on the Italian Renaissance through the present day. Prereq: Recommended ENGL& 101 (C).

### ART 254 (1-5)
**Survey of Northwest Coast Art**
Survey the visual culture of the Pacific Northwest Coast, beginning with indigenous arts in historical context through the present, with a focus on contemporary expressions and issues. Consideration will also be given to the exchange of artistic traditions and practices beyond the Northwest and the impact of colonialism, technological developments, and societal shifts. Prereq: Recommended ENGL& 101 (C).

### ART 255 (5)
**Survey of Asian Art**
Survey of the visual arts of India, China, and Japan with a focus on major religions, artistic forms, techniques, and cultural traditions. Consideration will also be given to the impact of outside invaders on the arts and cultural exchange across space and time. Prereq: Recommended ENGL& 101 (C).

### ART 256 (5)
**Art History: History of Photography**
Examines the role photography has played reflecting and shaping culture from its emergence in the 19th century to the digital revolution currently underway. Emphasizes photography’s role in the larger development of art history and what it means to take a photograph, to be photographed, and to view photographers as part of an audience. Students may take a few photographs of their own along the way. Prereq: ENGL 101.

### ART 291 (2)
**Art Seminar**
Readings and discussion in the philosophy and ideas of artists and art movements with criticism and analysis of works of art.

### ASTR 299 (1-5)
**Independent Study**
Independent study of approved topics in astronomy. Prereq: Permission.

### BIOL 103 (3)
**Nutrition, Food Service**
Identification of known nutrients for human health; demonstration of dietary quality guidelines; utilization of dietary guidelines in meal planning, including modification of existing recipes to meet nutritional recommendations.
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<th>Course Code</th>
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<tr>
<td>BIOL 107</td>
<td>Intro to Comparative Animal Behavior</td>
<td>Overview of current thinking and research in the science of animal behavior, including a brief history of the development of animal behavior as a science. Focuses on evolutionary principles and how they influence the behavior of animals. Discover how animals learn and how learning and instinct shape behavior. Explore how strategies employed by different species affect survival. Gain insight into human behavior from a new perspective and understand why and when social and apparent altruism can be advantageous to animals. Prereq: Eligibility for MATH 084, 087, or 91. Completion of ENGL&amp; 101 with a 2.0 or better (C).</td>
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<tr>
<td>BIOL 109</td>
<td>Bio Sexual Transmitted Diseases</td>
<td>Study the basic biology of the most common sexually transmitted diseases (STDs) in the U.S.: HIV/AIDS, chlamydia, genital herpes, syphilis, gonorrhea and others. Learn how STDs are transmitted, how microbe-host interactions cause disease, and leading treatments. Includes basic concepts in cellular biology, human biology and chemistry.</td>
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<tr>
<td>BIOL 120</td>
<td>Marine Biology</td>
<td>Emphasis on natural history, ecology, distribution, habitat, adaptation, interrelationships of local species. Field trips and lab included. Prereq: High school biology eligibility for MATH 084, 087, or 91. Completion of ENGL&amp; 101 with a 2.0 or better (C).</td>
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<tr>
<td>BIOL 128</td>
<td>Survey of Human Anatomy &amp; Physiology</td>
<td>Basic organization of the body; functions and interactions of body parts; response of the body to the environment. Lab included. Prereq: Eligibility for MATH 084, 087, or 91. Completion of ENGL&amp; 101 with a 2.0 or better (C).</td>
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<tr>
<td>BIOL&amp; 160</td>
<td>General Biology with Lab</td>
<td>Basic biological concepts with an emphasis on biological molecules, cell structures and processes, genetics, and a survey of biodiversity. Prereq: Eligibility for MATH 088, 092, or 098 and completion of ENGL&amp; 101 with a 2.0 or better (C).</td>
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<tr>
<td>BIOL 161</td>
<td>Human Genetics</td>
<td>Intro to genetics with an emphasis on the impact of genetics on individuals, families and society. Topics include cell division, stem cells, meiosis and reproduction, Mendelian inheritance, multifactorial traits and diseases, DNA structure, gene expression &amp; analytics, epigenetics, human genetic variation, mutations, chromosomal abnormalities, cancer, genetic and identity testing, human ancestry, PCR, recombinant DNA, gene therapy and genomics. Prereq: Eligible for MATH 084, 087, or 091 and completion of ENGL&amp; 101 with a 2.0 or better.</td>
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<tr>
<td>BIOL 198</td>
<td>Biology Workshop</td>
<td>Problem-solving workshop approach to biology topics considered appropriate by the instructor and/or biology faculty. Additional topics may include study skills, note-taking systems, test-taking strategies and group problem-solving approaches. Prereq: Permission.</td>
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<tr>
<td>BIOL&amp; 211</td>
<td>Majors Cellular</td>
<td>A three-quarter intro to biology sequence in preparation for advanced study in areas such as medicine, dentistry, cell biology, microbiology, or veterinary medicine. BIOL&amp; 211 focuses on cellular biology: cell structure, organization, metabolism, energetics, the gene and chromosomal, microbial and molecular genetics, BIOL&amp; 212 on the biological diversity in animals and BIOL&amp; 213 on evolution, ecology and biological principles of prokaryotes, fungi, protists and plants. Continuation of series with an emphasis on prokaryotes, fungi, algae, and plants including their diversity, anatomy and physiology. Includes evolutionary and ecological principles relevant to biological studies. Lab included. Prereq: BIOL&amp; 211 with 2.0 or better (N.C.). BIOL&amp; 212 with 2.0 or better (S).</td>
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<tr>
<td>BIOL 228</td>
<td>Molecular Cellular I</td>
<td>For science major transfer students. Covers theory and laboratory techniques emphasizing recombinant DNA technology with emphasis on experiential learning. Addresses lab safety, solution preparation, and the process of ethical science.</td>
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<tr>
<td>BIOL 229</td>
<td>Molecular Cellular II</td>
<td>For science major transfer students. Covers theory and laboratory techniques emphasizing protein purification and characterization technology with emphasis on experiential learning. Addresses lab safety, solution preparation and the process of ethical science.</td>
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<td>BIOL&amp; 241</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>Covers fundamental principles and establishes a basis for advanced study of anatomy and physiology and clinically-related subjects in the paramedical fields. Lab included. Prereq: BIOL&amp; 160 with a 2.0 or better.</td>
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<tr>
<td>BIOL&amp; 242</td>
<td>Human Anatomy &amp; Physiology 2</td>
<td>Continuation of BIOL&amp; 241. Lab included. Prereq: BIOL&amp; 241 with a 2.0 or better.</td>
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<tr>
<td>BIOL 260</td>
<td>Microbiology</td>
<td>Fundamentals of microbiology, with emphasis on bacteria and bacterial disease. Topics include bacterial cell biology, microbial growth, growth control methods, bacterial metabolism, genetics, classification, identification, viruses, human innate and adaptive immune systems, microbe-host interactions, bacterial pathogenesis, infectious disease epidemiology and antibacterial drugs. Lab included. Prereq: Two college-level BIOL and/or CHEM courses with 2.0 or higher; eligibility for MATH&amp; 088, 098, or 136 or instructor permission. (C).</td>
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Botany

**BOT 112 (5)**
**The Plant Kingdom**
Intro to the anatomy, physiology and diversity of plants. Includes reproduction, evolution and ecology of these organisms. Lab. Prereq: Eligible for MATH 084 and ENGL& 101. Prereq: Eligibility for MATH 084, 087, or 091 and completion of ENGL & 101 with a 2.0 or better (C).

**BOT 113 (5)**
**Plant Classification**
Intro to classification and diversity of seed plants. Focuses on the characteristics, collection and identification of regional plants. Lab. Prereq: Eligible for MATH 084 and ENGL& 101. Prereq: Eligibility for MATH 084, 087, or 091 and completion of ENGL & 101 with a 2.0 or better (C).

**BOT 299 (5)**
**Independent Study – Botany**
Independent Study

Business

**BUS& 201 (5)**
**Business Law**
Covers nature, development and operation of principles of business law relating to contracts, commercial paper, corporations, agency, partnerships and sales.

**BUS 210 (5)**
**Business & Economic Statistics**
Studies statistical methods and their application to business and economic data. Prereq: MATH 098 or 116.

**BUS 216 (5)**
**Professional Development**
Learn to develop positive mental attitudes and examine useful techniques for personal and professional success. Emphasizes various aspects of career development.

**BUS 240 (5)**
**Internet Law**
Explores legal issues and topics directly related to the World Wide Web: copyright, trademark and servicemark rights; privacy, contractual issues surrounding work-product, website development and licensing agreements; employment issues including discrimination and monitoring of employee email; censorship; domain name registration; defamation or cyberslander; misuse of the Internet and liability issues. Provides an overview of the basics of constitutional law, contracts, torts, regulatory, criminal law and personal law.

**BUS 298 (1-5)**
**Special Topics: Business**
Prereq: Permission.

**BUS 299 (1-5)**
**Special Topics: Business**
Individual or group study projects on topics in the field of business. Prereq: Permission.

Business Technology Management

**BTM 098 (3)**
**Computing Essentials**
Presents common concepts and principles for effective use of current technologies. Covers basic technology vocabulary, general uses and functions of computers, mobile devices, software applications, and the Internet. Designed for students with little or no experience using computers and/or the Internet for academic and professional purposes. Prereq: Placement into ENGL 092/ESL 093 or equivalent and basic keyboarding skills (United States keyboard).
Course Descriptions

BTM 100 (2) Education and Career Exploration
Provides effective strategies and skill building to make informed academic and career decisions. Students explore education programs and careers compatible with skills, interests, values, and goals. Career resources are explored, evaluated, and implemented in the development of an education and work plan and portfolio.

BTM 101 (2) MS Word
Word processing skills will be covered using MS Word.

BTM 102 (2) MS Excel
Basic skills in spreadsheets will be covered using MS Excel.

BTM 103 (2) MS PowerPoint
PowerPoint, includes creating and editing presentations.

BTM 104 (2) Adobe Photoshop
An introduction to Photoshop concepts and skills.

BTM 105 (2) Adobe InDesign

BTM 106 (3) Keyboarding
Keyboarding using Word for students with little or no typing experience. Includes alpha/numeric keyboard and word processing of correspondence documents. May be taken for S/NC grade.

BTM 107 (3) Speed Building
Development of speed and accuracy of letter, symbol, and number keys through drills and timings. May be taken for S/NC or decimal grade. Prereq: Keyboarding of 25 net wpm.

BTM 108 (3) Applied Business Math I
Discusses whole numbers, fractions, percentages, percentages, story problems, and basic descriptive statistics as applied to everyday business math problems.

BTM 109 (5) Business Communications I
Review and refine basic English grammar, spelling, punctuation, and word usage skills by composing effective basic business letters and memos. Intro to oral communication skills essential to successful giving/receiving of information and cultural aspects of the communication process.

BTM 111 (5) Business Applications I
Intro to word processing, spreadsheets, and personal information management and presentation software. Creating letters, business correspondence, spreadsheets, and presentations commonly used in business settings.

BTM 112 (5) Business Applications II
This course develops intermediate hardware/software competencies using an office productivity suite, document formatting, and operational proficiency to manage business information. Emphasis is on producing intermediate-level spreadsheet applications and practical business documentation, mail merges, data imports, and macros; creating text columns; importing and manipulating graphics; using fonts; researching new software; and developing team training strategies.

BTM 113 (5) Business Applications III
Introduces students to cloud-based, client-side computing using a cloud based enterprise account. Setting up an account and using email, an online office suite, and the most useful cloud-based apps will be discussed. Students will learn content management systems to manage their work and participate in team projects.

BTM 114 (2) MOS Test Prep Word

BTM 115 (2) MOS Test Prep Excel

BTM 116 (2) MOS Test Prep PowerPoint

BTM 118 (5) Applied Business Math II
Use business math applications to work with applied statistics, invoices, trade and cash discounts, markups and markdowns, payroll, depreciation, compound interest, and other business applications. Use Excel software to create spreadsheets.

BTM 119 (5) Business Communications II

BTM 120 (5) Customer Relations Management
Develop skills to identify and resolve customer complaints, handle difficult customers, utilize effective verbal and nonverbal communication methods, and be introduced to customer relationship management systems. Learn appropriate professional use of various electronic media and contribute positively to the service culture of an organization. Examine future trends and changes in global work environments.

BTM 122 (5) Professional Development

BTM 197 (1-5) Work Experience
Business technology management. Earn work experience in the business field. Prereq: Permission.

BTM 217 (5) Web Development
HyperText Markup Language (HTML) and web page development. Introduction and implementation of HTML tags and files, common web page formats and functions, and develop and install comprehensive websites. Prereq: Previous computer experience strongly recommended.

BTM 218 (4) Web Design w/Dreamweaver
The course introduces Dreamweaver, software for Web page development.

BTM 225 (5) Marketing Fundamentals
Introduces principles and concepts of marketing. Marketing concepts increase the effectiveness and chance of success for many different efforts by getting the right message to the right people. Both online and offline approaches will be covered.

BTM 226 (3) Small Business Startup

BTM 227 (3) Entrepreneurship Toolkit
This course introduces the elements necessary to help a student identify entrepreneurial and small business skills. Students will develop an understanding of the difference between an employee and an entrepreneur/employer. The class will engage students from any campus discipline that might lend itself to self employment i.e. culinary, optician, photography etc PREREQ: COMPASS score placement or ENGL & 101 or higher.
BTM 228 (5)  
Small Business Management  
Planning, organizing and marketing activities, forecasting methods and financial resources will be covered as well as decision-making tools.

BTM 231 (5)  
Applied Accounting I  
Students will learn the “language of business Accounting.” This includes the terminology, definitions, principles, and rules of accounting. Students will learn the entire accounting cycle by setting up both a manual and computerized accounting system, and how to analyze, classify, and enter transactions into the system. Students will know how to create and interpret financial statements in accordance with GAAP rules. Prereq: BTM 108.

BTM 232 (5)  
Applied Accounting II  
BTM 233 (5)  
Applied Accounting III  
BTM 234 (1)  
Bookkeeping Test Prep  
BTM 236 (5)  
Supervision & Leadership  
Basic course in first-line management and human relations, covering total responsibilities of a supervisor. Topics included are the functions of the job, management, human relations and motivation, effective communications, system concepts, and problem solving. Note: There is an optional service-learning component for an additional 2 credits.

BTM 237 (5)  
HR Management  
Students learn the organizational structure of the modern business office. NOTE: There is an optional service-learning component for an additional 2 credits.

BTM 240 (5)  
Applied Database Design  
This course introduces the concepts and application of designing and building relational database models in solving business database problems. This will include using basic Structured Query Language (SQL) and Microsoft Access to build database applications.

BTM 245 (5)  
Business Analysis Planning  
BTM 248 (5)  
Data Analysis – Adv. Excel  

BTM 250 (5)  
RIM Management  
Components of manual and computerized record management systems. Use Access XP to design, create, document, maintain, update, and integrate a computerized database. The following filing systems: alphabetic, geographic, numeric, and subject will be introduced and applied.

BTM 260 (5)  
Project Management  
Overview of project management from a business perspective, including project estimation, feasibility, planning, risk management, contingency planning, scheduling, and control. Apply project management principles to student project.

BTM 265 (5)  
Operations Management  
BTM 268 (5)  
Content Management w/SharePoint  
BTM 275 (5)  
Computer User Support  
Designed to introduce students to the fundamentals of help desk operations. Emphasizes the basic components of a successful help desk, provides students with working knowledge of software to process and track calls, and presents hands-on experience with problem analysis.

BTM 278 (5)  
Organizational Behavior  
BTM 298 (5)  
Special Topics  
Designed to allow for special course offerings and new course development on topics relevant to new and emerging computer and technology applications and industry needs. Prereq: Permission.

BTM 299 (1-5)  
Special Topics: Business  
Individual or group study projects on topics in the field of business. Prereq: Permission.

Chemical Dependency  
See Service Learning, page 19

Chemistry

CHEM& 110 (5)  
Chemical Concepts with Lab  
Stresses a humanistic approach to chemistry and de-emphasizes mathematical problem-solving. Reveals chemical principles, facts and theories through practical applications, computer graphic illustrations and experiments. Includes lab. Prereq: Eligibility for MATH 084, 87, or 91. Completion of ENGL & 101 with a 2.0 or better (C).

CHEM& 121 (5)  
Intro to Chemistry  
Fundamental inorganic chemistry, including bonding, stoichiometry, gas laws and acid/base topics. Of particular interest to Health Science and Biotechnology students. Lab included. Prereq: One year of high school algebra or MATH 085. Prereq: Eligibility for MATH 084, 87, or 91. Completion of ENGL & 101 with a 2.0 or better (C).

CHEM& 122 (5)  
Intro to Organic Chemistry  
Continuation of organic chemistry and intro to biochemistry. Lab included. Prereq: CHEM& 121.

CHEM& 123 (5)  
Intro to Biochemistry  

CHEM& 131 (5)  
Intro to Organic/Biochemistry  
Covers the structure, properties and reactions of various organic compounds, including hydrocarbons, alcohols, aldehydes, ketones, carboxylic acids and amines. Examines complex compounds found in living systems: carbohydrates, lipids, proteins, and nucleic acids. Lab focuses on analysis and separation techniques. Prereq: CHEM& 121 with 2.0 or higher.

CHEM& 139 (5)  
General Chemistry Prep Lecture I  
Includes chemical mathematics, basic atomic structure, chemical bonding, chemical equation balancing, mole concept and chemical stoichiometry. Prereq: MATH 098 with a 2.5 or higher (C).
### Course Descriptions

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Prerequisites and Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM&amp; 161</td>
<td>General Chemistry w/Lab I</td>
<td>For science majors. A three-quarter sequence introducing basic concepts of chemistry: structure and bonding, chemical reactivity, physical measurement, stoichiometry, structure of matter, gas laws, intermolecular forces, solutions, chemical kinetics, equilibrium, acid/base, thermodynamics, redox and electrochemistry. Fulfills the QSR requirement for A.A. degree. Satisfies the general chemistry requirement for science majors and various pre-professional programs. Several pre-engineering and other programs require only CHEM&amp; 161 and 162. Prereq: CHEM&amp; 139 (or passing grade on placement exam) and MATH&amp; 141 with 2.0 or higher.</td>
</tr>
<tr>
<td>CHEM 191</td>
<td>General Chemistry</td>
<td>CHEM 191 and 192 are equivalent to CHEM&amp; 161, 162 and 163. Explores the principles of chemistry, structure of matter, atomic and molecular theory, the elements, periodicity, quantitative relationships, nuclear chemistry, aqueous solutions, oxidation and reductions. Both courses fulfill QSR requirement for A.A. degree. CHEM 191 Prereq: CHEM&amp; 139 or passing score on chemistry placement exam and MATH 102 or MATH&amp; 141; CHEM 192 Prereq: CHEM&amp; 162.</td>
</tr>
<tr>
<td>CHEM&amp; 162</td>
<td>General Chemistry w/Lab II</td>
<td>For science majors. Covers chemistry principles, structure of matter, atomic and molecular theory, the elements, periodicity, quantitative relationships, nuclear chemistry, aqueous solutions, kinetics, chemical thermodynamics, oxidation and reduction, electro-chemistry, periodicity, equilibrium systems, qualitative analysis and organic chemistry. Fulfills the QSR requirement for A.A. degree. Prereq: CHEM&amp; 161.</td>
</tr>
<tr>
<td>CHEM&amp; 163</td>
<td>General Chemistry w/Lab III</td>
<td>For science majors. Covers chemistry principles, structure of matter, atomic and molecular theory, the elements, periodicity, quantitative relationships, nuclear chemistry, aqueous solutions, kinetics, chemical thermodynamics, oxidation and reduction, electro-chemistry, periodicity, equilibrium systems, qualitative analysis and organic chemistry. Fulfills the QSR requirement for A.A. degree. Prereq: CHEM&amp; 161.</td>
</tr>
<tr>
<td>CMST&amp; 101</td>
<td>Intro to Communications</td>
<td>Intro to communication as a transactional process, with attention to personal, cultural, group and public communication. Covers verbal and nonverbal messages, listening, self-concept and perception. Prereq: Placement into ENGL&amp; 101.</td>
</tr>
<tr>
<td>CMST&amp; 101</td>
<td>Intro to Mass Media</td>
<td>History and impact of the mass media from hieroglyphics through print, advertising, radio, TV, movies and the Internet. Critically read media “texts” and analyze the effects on individuals and cultures. Prereq: ENGL&amp; 101 placement.</td>
</tr>
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</tr>
</tbody>
</table>
Finding Courses

Course names and course prefixes are cross-referenced in an index beginning on page 3. For example:

Prefix to Name

HIN ............ Watch Technology

Name to Prefix

Watch Technology ............ HIN

Common Course Numbering

Explanation is on page 2.

CMST 175 (5)
Oral Interpretation
Interpretation as an artistic process of studying literature and other texts through individual and group performance with an audience. Analyze and perform various texts in their aesthetic, intellectual and emotional entirety. Prereq: Placement into ENGL& 101.

CMST 185 (1-5)
Organizational Communications
Identification, practice and evaluation of communication styles and skills to achieve individual and organizational goals within corporate and non-profit cultures and settings. Practical professional orientation. Prereq: Placement into ENGL& 101.

CMST 205 (5)
Multicultural Communications
Study concepts of culture and the opportunities and challenges of multicultural communication in domestic settings. Focuses on the importance of culture in all human interaction; the variables which affect intercultural communication, including ethnicity, gender and multicultural identities; and the influences of American culture around the world. Prereq: ENGL& 101.

CMST& 210 (5)
Interpersonal Communications
Covers principles and processes of human communication, including observations and applications, personal and cultural contexts, nonverbal and verbal interactions, multiple intelligence, perception, models and definitions. Prereq: Placement into ENGL& 101.

CMST& 220 (5)
Public Speaking
Covers the process of getting started with confidence; topic selection and research; and preparation and delivery of informative, persuasive, special occasion and other forms of presentations. Prereq: Placement into ENGL& 101.

CMST& 230 (1-5)
Small Group Communications
Experience in and analysis of communication within groups, emphasizing the value of interdependent thoughts and efforts, active listening and empathizing, cooperative roles and tasks, power and conflict management, and collaborative decision-making and problem-solving. Prereq: Placement into ENGL& 101.

CMST 240 (5)
Intro to Health Communications
Introduction to Health Communication examines the psychological and persuasive appeals aimed at promoting behavioral change with the design and implementation of a health education campaign. Students develop a health education campaign integrating theories of behavioral change, persuasion, cultural competence, health literacy, social marketing, and mediated messages. Prereq: ENGL& 101 with a minimum GPA of 2.0.

CMST 245 (5)
Media Communications and Criticism
Contemporary perspectives on the transformation of human interaction through media-based communication. Evaluates the content of modern criticism within the context of the cultural and economic marketplace of ideas and values. Prereq: ENGL& 101.

CMST 255 (5)
Writing for Organizations & Media
Basics of writing effectively for organizations, print and electronic media. Communication strategies, formats and media used by individuals within organizations to convey messages to internal and external audiences. Create individual writing portfolios. Prereq: ENGL& 101.

CMST 265 (5)
Media Relations/Ethics
Covers current trends in and ethical issues about, the generation, maintenance and dissemination of effective communications which define and promote corporate and non-profit media organizations. Study their relationships with internal cultures and external communities, including investors, shareholders, clients, analysts, government organizations, other media and consumers. Prereq: ENGL& 101, ENGL& 102 or BUS 131, CMN 195.

CMST 275 (1-5)
Online Communications
Survey of communication issues and applications emerging from the ongoing development and use of digitized media. Focus on functioning effectively within the frontier environment of cyberspace. Write and prepare material for digital formats. Prereq: ENGL& 101 and 102; or permission; access to the Internet; and basic email and word processing skills.

CMST 285 (5)
Current Topics in Communications
Timely, multidisciplinary approaches to interpersonal, group, organizational, intercultural and media communication. Prereq: ENGL& 101 and 102; or permission.

CMST 290 (5)
Media Project Practicum
Learn guidelines for managing client accounts and techniques for coordinating media productions. Emphasizes critical thinking, problem-solving, managerial and creative skills in professional situations and media formats. Prereq: Placement into ENGL& 101.

CMST 291 (5)
Internet/Print Practicum
Integrate scholarly and professional analyses of Internet and print media in various theoretical and practical contexts. Learn guidelines for managing client accounts and techniques for coordinating online and print media productions. Increase critical thinking, problem-solving, managerial and creative skills with online and print material. Prereq: BUS 229 or CMN 130, ENGL& 101.

CMST 292 (5)
Radio/Audio Practicum
Integrate scholarly and professional analyses of radio and other audio media in various theoretical and practical contexts. Learn guidelines for managing client accounts and techniques for coordinating aural media productions. Increase critical thinking, problem-solving, managerial and creative skills with aural material.

CMST 293 (5)
Television/Video Practicum
Integrate scholarly and professional analyses of television and other video media in various theoretical and practical contexts. Learn guidelines for managing client accounts and techniques for coordinating visual media productions. Increase critical thinking, problem-solving, managerial and creative skills with visual material.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 294</td>
<td>(5)</td>
<td>News/Public Info Practice</td>
<td>Integrate scholarly and professional analyses of news and public information media in various theoretical and practical contexts. Learn guidelines for managing client accounts and techniques for coordinating informational media productions. Increase critical thinking, problem-solving, managerial and creative skills for developing and presenting informational material.</td>
</tr>
<tr>
<td>CMST 295</td>
<td>(1-5)</td>
<td>Studies and Works in Communications</td>
<td>Analytical study or creative work in Communication. Prereq: ENGL&amp; 101 and 102, an approved learning contract/proposal and permission.</td>
</tr>
<tr>
<td>CMST 299</td>
<td>(1-5)</td>
<td>Special Projects in Speech</td>
<td>Special projects in Communication.</td>
</tr>
<tr>
<td>CSC 102</td>
<td>(2)</td>
<td>Computers in Mathematics</td>
<td>Introduction to software (such as Mathematica) used extensively in advanced math courses. Completion of self-paced tutorials to prepare for final exam. CSC 102B must be taken with MATH 116. CSC 102Q is strongly recommended for students in MATH&amp; 151. First class is mandatory because it provides an introduction to the software. Prereq for CSC 102B: MATH 098, concurrent enrollment in MATH 116, or permission. Prereq for CSC 102Q: MATH&amp; 142 or permission.</td>
</tr>
<tr>
<td>CSC 110</td>
<td>(5)</td>
<td>Intro to Computer Programming</td>
<td>An overview of computer program design and problem solving with a focus on problem analysis, program development, testing and debugging. Students will use decision and loop structures to develop a variety of programs to solve scientific and technical problems. Programming language used will be Python. Prereq: MATH 095 or MATH 098 with a 2.0 or higher. Computer fee.</td>
</tr>
<tr>
<td>CSC 111</td>
<td>(5)</td>
<td>Computers for Math &amp; Science</td>
<td>Learn to create and manage your own website with images, links, and multimedia. Use spreadsheet software for scientific calculations and to create graphs. Create a complete presentation using presentation software. Design and build a simple database using database software. Enhance your website with simple programs. Includes introduction to computer hardware, networks and privacy. Prereq: MATH 098 with a 2.0</td>
</tr>
<tr>
<td>CSC 142</td>
<td>(5)</td>
<td>Computer Programming I</td>
<td>General principles of modern programming, including how to design, implement, document, test and debug computer programs, using the Java programming language. Topics include objects, messages, expressions, statements, methods, classes, conditionals, iteration, arrays, and collections. Prereq: MATH&amp; 142 with a 2.0 or higher and CSC 110 with a 2.0 or higher. Computer fee. Transfer class.</td>
</tr>
<tr>
<td>CSC 143</td>
<td>(5)</td>
<td>Computer Programming II</td>
<td>Advanced concepts of modern programming that continue the ideas introduced in CSC 142. Topics include classes and interfaces, inheritance, graphics, exceptions, stream I/O, recursion, analysis of algorithms, and some dynamic structures (lists, stacks, trees). Uses the Java programming language. Prereq: CSC 142.</td>
</tr>
</tbody>
</table>
Coordinated Studies Programs/Learning Communities

Learning Communities, also called Integrated Studies, study a major theme from a variety of academic disciplines. A team of faculty and students use critical thinking to study important issues and concerns for the entire quarter. Students enroll for the entire program. Each program is taught by a team of diverse faculty members who conduct lectures and lead student seminars, field trips and group projects.

In Learning Communities, students and faculty work together on local and global issues requiring creative and active participation from all those in the classroom.

This innovative approach to teaching and learning has won national recognition for the Seattle College District. The sense of community and excitement generated by Learning Communities creates an atmosphere that is especially memorable and profound.

For further information, students should contact the Advising Center at their campus and check the quarterly class schedule.

Core Employment Readiness

COR 095 (1-15) Community Corrections Program
Short term program designed to provide skills needed for employment as a Community Corrections Facilitator in community based corrections. As a CCF this person will be responsible for residential supervision of clients under court jurisdiction. This program emphasizes practical skill development and application of policies and procedures within the company guidelines.

CORe 110 (5) Health and First Aid
Health and safety of the Correction Officer, the inmate and the environment are vital within the correction field. Consists of four cohesive, instructional components with an expert instructor in each field: first aid, communicable disease prevention (emphasis on AIDS-HIV awareness), alcohol and alcoholism, drugs and substance abuse. State certification will be given to those who perform satisfactorily in both written exams and in demonstrations. Attendance for a minimum number of classroom hours is mandatory.

COR 197 (15) Internship Field Experience
Following an orientation, spend time in the field under guidance of an instructor and/or mentor to learn about operations, policies, procedures and clientele serviced in a given correction or public service organization or institution. Students meet as a group during the internship, which can be during ongoing program coursework or upon completing the coursework or both. Prereq: Permission.

COR 225 (2) Crime in America I
Introduction to American crime trends and how American society and politics dealt with the problems based upon historical American opinion and politics.

COR 230 (3) Crime in America II
Covers contemporary social and political policy factors affecting crime and crime trends in America. Special emphasis on American policy regarding trends in offender housing and behavior modification with today’s policy on direct supervision. Focus on how crime impacts social and political trends, with emphasis on offender and victim profiles. Prereq: COR 225.

Culinary Arts

CUL 103 (4) Food Theory III
Covers professional restaurant cooking and international cuisines. Explores European, Asian, and U.S. cooking, culture, and eating traditions. Includes menu writing, recipe development, flavor building, and plate presentation and the study of a variety of specific techniques: soufflé, consommé, pasta, fish butchery, gumbo, Chinese dumplings, and antipasto. Prereq: Successful completion of 2nd quarter, Culinary Arts Program courses with a minimum GPA of 2.0 in each course.

CUL 104 (6) Food Theory IV
Emphasizes international fine-dining cooking theory. Focus on classical and contemporary Northwest, Middle Eastern, Mexican, Spanish, French, and Pan Asian cuisines. Includes menu writing, vegetarian cuisine, advanced sauces, ingredient identification, advanced cooking methods, advanced plate presentation, fine dining kitchen organization, whole animal fabrication, and charcuterie. Prereq: Successful completion of 3rd quarter Culinary Arts Program courses with a minimum GPA of 2.0 in each course.

CUL 106 (1.5) Introduction to Culinary Arts: Theory
Introduction to the theory of culinary arts covering the various methods of moist and dry heat cooking as well as product knowledge and identification, knife skills, and foundational cooking techniques. Prereq: Permission.

CUL 111 (4) Intro Professional Cooking: Practicum
A hands-on introduction to the fundamentals of professional cooking. Includes kitchen safety operations, knife skills, basic food cooking and stock preparation, teamwork, leadership, general housekeeping, sanitation, cleanup, and inventory. Prereq: Permission.

CUL 112 (8) Quantity Cooking: Practicum
Preparation of international quantity cooking meals. Includes mise en place, item menuing, equipment operation, and preparation of meals from the Italian, Asian, Middle Eastern, Mexican, Creole, Indian, French, and American traditions. Prereq: Successful completion of 1st quarter Culinary Arts Program courses with a minimum GPA of 2.0 in each course.

CUL 113 (8) Restaurant Cooking: Practicum
Prepare meals for on-campus casual American restaurant. Work all kitchen stations. Use traditional and contemporary culinary techniques to produce a culturally diverse selection of soups, salads, and casual entrees. Practice fabrication of various meats, seafood, and vegetables and various wet and dry cooking methods. Includes concepts of mise en place, collaboration, and seasonality. Develop skills in organization, speed, plate presentation, and evaluation of finished product.
**CUL 114** (8)
**International Cooking: Practicum**
Provides hands-on training in cooking and preparing meals for fine dining. Gain experience in classical and contemporary Northwest and international cuisines. Skill focus will be placed on plate presentation, accuracy, good working habits, palate development, care for ingredients, safety, professionalism, and organization. Students work collaboratively to present dishes in a full-service restaurant. Menus utilize seasonal, sustainable, and non-GMO ingredients.

**CUL 120** (1)
**Introduction to Wine**
Covers the fundamentals of grape growing and winemaking, including table, sparkling and fortified wines. Includes sensory evaluation of classic grape varieties and their growing regions with emphasis on Washington state wines. Learn strategies for food and wine pairing. BAK 103 or CUL 104 with a minimum GPA of 2.0.

**CUL 151** (1)
**Sustainable Food Systems I**
Introductory course exploring the current ecological, economical and political issues relating to the food system. Raises awareness of issues of the food system from producer to consumer, exploring agriculture, fisheries, dairy, meat and poultry production, water and waste. Includes trade, health and social justice issues within the food system. Prereq: Admission into Culinary Arts Program.

**CUL 152** (1)
**Sustainable Food Systems II**
Continuation of CUL 151. Introductory course exploring the current ecological, economical and political issues relating to the food system. Raises awareness of issues of the food system from producer to consumer, exploring agriculture, fisheries, dairy, meat and poultry production, water and waste. Includes trade, health and social justice issues within the global food economy. Successful completion of 2nd quarter Culinary Arts Program courses with a minimum GPA of 2.0 in each course.

**CUL 153** (1)
**Sustainable Food Systems III**
Explore the issues relating to a sustainable food system: globalization, food politics, food security and social justice. Examine climate change as it relates to the food system, water and waste issues, heritage foods, and practical application of ideas in the kitchen. Learn how to navigate and purchase from the local producer market. Prereq: Permission.

**CUL 205** (1)
**Advanced Culinary Theory**
Students refine the practical skills for managing and running kitchens, dining rooms and other areas of the food service industry. The technical background of designing menus and menu items for specific target populations with an emphasis on high end and specialty dining will be explored through cooking demonstrations, product sampling and lectures. Prereq: Successful completion of 4th quarter Culinary Arts Program courses with a minimum GPA of 2.0 in each course.

**CUL 215** (4.5)
**Advanced Culinary Practices**
Culmination and refinement of culinary techniques. Create and serve a “Chef of the Day” menu in the One World dining room. Create meals with a nutritious focus, execute banquet and tasting menus, practice advanced culinary techniques, and refine culinary competition skills. Practice professionalism and the commitment to producing high-quality food. Prereq: Successful completion of 4th quarter Culinary Arts Program courses with a minimum GPA of 2.0 in each course.

**CUL 251** (4)
**Buffet & Garden: Theory**
Basic cooking methods covering garde manger as well as charcuterie, forcemeats, sauces and creams, pastries, pies and tarts, yeast doughs, quick breads, syrups, icings, buttercreams, soufflés and other applications such as charcuterie, forcemeats, curing and smoking, and hors d’oeuvres. Learn to design a show platter and relate to buffet catering & garde manger principles, and understand the relationship of theory to the menus and recipes in the practicum show platter. Learn about produce farming, sustainability, and seed to plate food production while visiting Skagit Valley Farm.

**CUL 255** (8)
**Buffet/Garden/Ice: Practicum**
Prepare foods for a buffet setting, including salads, sandwiches, street food, hot entrees, cold kitchen preparation, and desserts. Produce a variety of charcuterie items. Implement recipes and cooking methods presented in class. Work on a show platter for buffet presentation. When applicable, utilize weekly harvests from the Skagit Valley Farm to execute seed-to-pllate philosophy in menus and recipes. Prereq: CUL 112 or permission.

**CUL 291** (5)
**Seattle Culinary Academy Travel 1 – Spain**
Intensive international culinary immersion program. Travel and learn history, language, culture, traditional and modern cuisine of a specific country through Seattle Culinary Academy’s international partners. Enhance cultural knowledge and language skills via research and travel to historic sites, cultural events, food producers and exhibits. Practice skills learned in a professional kitchen abroad. Prereq: Permission.

**CUL 292** (5)
**Seattle Culinary Academy Travel 2 – Spain**
Intensive culinary immersion programs in international culture and cooking with international partners. Travel and learn history, language, culture, traditional and modern desserts, breads, and pastry techniques of the country in classroom and kitchens. Enhance language skills and cultural knowledge via research and travel to historic sites, cultural events, food producers and exhibits. Prereq: Permission.

**CUL 299** (5)
**Independent Project/Culinary**
Independent study course for individual projects in the Culinary Arts field. Prereq: permission.

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**Culinary Arts Specialty Desserts**

**BAK 101** (4)
**Intro Desserts & Bread**
Intro to baking/cooking methods and to the scientific principles used in this field. Covers ingredient responses to temperature, friction and storage; mise en place; ingredient functions and characteristics; tools/equipment; and trade terminology. Includes discussion of yeast doughs, quick breads, syrups, icings, sauces and creams, pastries, pies and tarts, cake mixing and baking. Prereq: Admission to program.

**BAK 102** (3)
**Bread Food Preservation**
Presents theory and ingredients, including why specific baking techniques work. Emphasizes the formation and exercise of judgment in baking practice, relationships between procedures and products and evaluation of product quality. Includes discussion of bread history; buttercreams; soufflés and merengues; frozen desserts; chocolate sugar work; bread and bread sculpture; centerpieces; and wedding cakes. Prereq: BAK 101.
Course Descriptions

BAK 103 (4)
Science and Practice of Baking with Chocolate
Presents advanced theory and ingredients in the chocolate making process, fair trade practices, cacao bean growing and chocolate making. Learn the scientific principles of sugar process, sugar alcohol, sugar cooking stages, fat functions and characteristics. Prereq: Successful completion of previous quarter’s Seattle Culinary Academy courses with a minimum GPA of 2.0 in each course.

BAK 105 (1.5)
Restaurant Baking: Theory
For culinary arts students. Expands on science and principles of baking, including yeast doughs and formulas, icing techniques, basic cake types and characteristics of desserts. Prereq: Successful completion of 2nd quarter Culinary Arts Program courses with a minimum GPA of 2.0 in each course.

BAK 111 (6)
Intro Desserts & Bread
Application of baking theory to production. Includes mise en place and preparation of a variety of doughs, breads/rolls, breakfast breads/pastries, cookies, tarts, sponge and tea cakes and decorated cakes. Prereq: Admission to program.

BAK 112 (8)
Begin Dessert/Bread: Practicum
Further application of baking theory to production, including exercising judgment and product success/failure analysis. Includes preparation of pastry creams, egg foams, butter creams, merengues, mousses, soufflés, custards, frozen desserts, holiday desserts, compotes, chocolate candies, sauces and fillings. Prereq: Successful completion of 1st quarter Specialty Desserts and Breads Program courses with a minimum GPA of 2.0 in each course.

BAK 113 (8)
Intermediate Dessert/Bread: Practicum
Development of professional bakery skills, including organization, accuracy and communication. Practice assessment of product texture, taste and appearance. Includes preparation using advanced techniques of intricate chocolate work, European cakes and plated desserts, with increased emphasis on presentation and artistic skills. Prereq: Successful completion of 2nd quarter Specialty Desserts and Breads Program courses with a minimum GPA of 2.0 in each course.

BAK 115 (1)
Restaurant Baking: Practicum
For culinary arts students. Production of baked goods including ganache, custards, creams, puddings, mousses and purees. Prereq: Successful completion of 2nd quarter Culinary Arts courses with a 2.0 or better.

BAK 116 (1)
Fine Dining Baking: Practicum
For culinary arts students. Applies baking theory to production of yeast doughs (bread, puff pastry and choux), focaccia, cakes, icings, decorations, mousses, tortes, puff pastries and flourless desserts. Prereq: Successful completion of 3rd quarter Culinary Arts courses with a minimum GPA of 2.0 in each course.

BAK 117 (1)
Intro to Cheese Making
For culinary academy students. Learn cheese making and fermentation techniques in the culinary field, including cheese diversity, milk composition, and the eight basic steps. Prereq: Successful completion of previous quarter’s Specialty Desserts and Breads or Culinary Arts Program courses with a minimum GPA of 2.0 in each course.

BAK 123 (2)
Advanced Dessert/Bread: Theory
Learn, analyze, and develop an understanding for the components of successful wedding cakes and petit fours. You will explore current industry standards in regard to flavor profiles, design components, and structure. This course includes a review and discussion on a variety of preservation methods and techniques for preserving summer produce. Prereq: Successful completion of 3rd quarter Specialty Desserts and Breads Program courses with a minimum GPA of 2.0 in each course.

BAK 124 (8)
Advanced Buffet Desserts/Wedding Cakes/Preservation
Design and develop a line of wedding cakes and petits fours using the latest industry techniques. Produce jam and preserves using organic fruits and vegetables. Includes practicing the seed-to-plate cooking model and designing and marketing a bakery display case. Prereq: Successful completion of 3rd quarter Specialty Desserts & Breads courses with a minimum GPA of 2.0 in each course.

BAK 125 (8)
Advanced Desserts/Breads-Prac
Design and develop a line of bakery goods. Purchase and inventory goods and calculate cost analysis as an extension of the class project. Prereq: BAK 113 or permission.

BAK 126 (3)
Advanced Food Preservation
Learn scientific principles as applied to lactic acid fermentation including cheese making, charcuterie and vegetable ferments. Explore scientific principles applied to yeast products, fermented foods and food preservation including flour facts and alcohol fermentation.

BAK 299 (1-5)
Special Projects/Commercial Baking
Independent study course for individual projects in the Commercial Baking/Pastry field. Prereq: Instructor permission.

Dental Hygiene
Bachelor of Applied Science in Allied Health – Dental Hygiene Track
Students must be accepted into the program in order to take these courses.

DHY 100 (4)
Fundamentals of Dental Hygiene I
Examines the theory and scientific principles underlying the assessment, planning and implementation of clinical procedures in dental hygiene. Focuses on the scope of practice in Washington state, legal and ethical principles that govern the profession and professionalism. Learn effective communication, infection control, instrumentation, vital signs assessment, screening examinations, documentation and use of computers.

DHY 101 (3)
Clinical Dental Hygiene I
First in a series of supervised clinical and pre-clinical experiences involving the assessment, planning and implementation of patient care and clinical dental hygiene.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>DHY 102</td>
<td>Health Promotion</td>
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<tr>
<td>DHY 103</td>
<td>Dental Radiology I</td>
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<td>DHY 104</td>
<td>Preventive Dentistry</td>
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<tr>
<td>DHY 105</td>
<td>Oral Biology</td>
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<td>DHY 107</td>
<td>Pharmacology</td>
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<td>DHY 108</td>
<td>Periodontology I</td>
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<td>DHY 109</td>
<td>Human Pathophysiology</td>
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<td>DHY 110</td>
<td>Head and Neck Anatomy</td>
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<tr>
<td>DHY 112</td>
<td>Dental Anatomy and Morphology</td>
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<tr>
<td>DHY 113</td>
<td>Dental Radiology II</td>
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<td>DHY 114</td>
<td>Restorative Materials I</td>
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<tr>
<td>DHY 117</td>
<td>Emergency Management</td>
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<td>DHY 118</td>
<td>Pain Control Anesthesia</td>
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<tr>
<td>DHY 119</td>
<td>Restorative Materials II</td>
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<tr>
<td>DHY 120</td>
<td>Fundamentals of Dental Hygiene II</td>
</tr>
<tr>
<td>DHY 121</td>
<td>Clinical Dental Hygiene 2</td>
</tr>
<tr>
<td>DHY 122</td>
<td>Oral Pathology</td>
</tr>
<tr>
<td>DHY 130</td>
<td>Fundamentals of Dental Hygiene III</td>
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<tr>
<td>DHY 131</td>
<td>Clinical Dental Hygiene 3</td>
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<tr>
<td>DHY 150</td>
<td>Supp Learning In Dental Hygiene</td>
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</tbody>
</table>

Health Promotion
Explores the process of health-related behavioral change through planned interventions in patient education and health promotion. Emphasizes theories of change, the effect of cultural norms and values in client-provider interaction and communication skills to assess the patient’s perceptions, needs and motivation to change.

Dental Radiology I
Study of radiation hygiene and the fundamentals of radiology relevant to dentistry. Includes demos and practice in exposing, processing and interpreting intra-oral radiographs. Covers principles and rules for patient and operator safety.

Preventive Dentistry
Study of dental deposits, dental diseases, causes and prevention including the relationship between plaque and oral disease processes, dental caries and gingivitis. Includes use and methods of researching professional literature and using oral health prevention measures such as patient education, self-care, fluoride and physiotherapies.

Oral Biology
Study of oral histology, including the microscopic structures and organization of tissues of the teeth, the embryologic development of the primary and secondary dentitions and the development of the oral cavity. Covers general pathology, including the mechanisms and characteristics of disease and disease process.

Pharmacology
Learn the general pharmacological and therapeutic actions of drugs with emphasis on those used in dentistry. Includes dosage, routes of administration, drug interactions, drug effects on the oral cavity, indications, contra-indications and factors in patient treatment planning.

Periodontology I
Learn the periodontal structures of the mouth and periodontal instrumentation, including types of instruments, names, setups and their proper application to periodontal therapy and treatment. Covers techniques for providing periodontal therapy, using adjunctive periodontal therapeutic agents, patient selection, treatment and post-treatment evaluation.

Human Pathophysiology
Study of human pathology including the etiology, predisposing factors, mechanisms of disease and characteristics of the disease process in each body system. Emphasizes specific disease entities that are most commonly seen in the clinical dental hygiene setting or that may influence an individual’s dental care.

Head and Neck Anatomy
Study the anatomy and function of the head and neck. Learn the location, characteristics and function of the hard and soft tissues of the head, neck and oral cavity, including all anatomic features, the circulatory system, muscular system, cranial nerves and teeth.

Dental Anatomy and Morphology
Study the anatomy and function of the head and neck. Learn the location, characteristics and function of the hard and soft tissues of the head, neck and oral cavity, including all anatomic features, the circulatory system, muscular system, cranial nerves and teeth.

Dental Radiology II
Continue study of radiation hygiene and radiology relevant to dentistry. Includes laboratory demos and practice in exposing, processing and interpreting intra-oral radiographs and extra-oral techniques.

Restorative Materials I
First of six-course sequence in clinical restorative dentistry. Focuses on the chemical, physical and mechanical properties of dental materials commonly used by hygienists and on their manipulation. Learn to place restorations into prepared cavities.

Emergency Management
Intro to the role of the dental team in the treatment of medical emergencies, prevention of medical emergencies, patient assessment, stress minimization, emergency drugs and equipment. Participate in class simulations of emergency treatment.

Pain Control Anesthesia
Covers theory and practice of pain control in dental hygiene and restorative dentistry, including nitrous oxide administration, topical anesthesia and nerve block, field and infiltration as local anesthesia applications.

Restorative Materials II
Second of six-course sequence in clinical restorative dentistry. Deepen learning of chemical, physical and mechanical properties of dental materials, their manipulation and placing restorations into prepared cavities.

Fundamentals of Dental Hygiene II
Examines the theory and scientific principles underlying the assessment, planning and implementation of clinical procedures in dental hygiene. Focuses on the initial assessment of the patient, planning, disease assessment, treatment planning and assessing special cases involving abuse and neglect and use of computers.

Clinical Dental Hygiene 2

Oral Pathology
Study lesions, pathologies and abnormal conditions of the head, neck and oral cavity.

Fundamentals of Dental Hygiene III
Examines the scientific principles underlying the assessment, planning and implementation of clinical procedures. Focuses on the selection of detection and scaling instruments, selection and use of ultrasonic instruments, use and application of desensitization agents, custom trays, margining, area-specific cures, periodontal files, Nabors probe and tooth whitening. Covers risk assessment, presentation and written case documentation in development of individualized treatment plans for clinic patients.

Clinical Dental Hygiene 3
Third in a series of supervised clinical experiences with patient care involving assessment, planning and implementation of clinical procedures.

Supp Learning In Dental Hygiene
The Individualized study in dental hygiene theory and/or practice personalized to meet the needs of dental assistants who have graduated from an accredited program and are making the transition into dental hygiene.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHY 200</td>
<td>(2)</td>
<td>Fundamentals of Dental Hygiene IV</td>
<td>Fourth in a series focusing on the scientific principles underlying the assessment, planning and implementation of clinical procedures. Emphasizes biochemistry of food, nutritional counseling in dental hygiene practice and personal, professional and community issues related to HIV/AIDS.</td>
</tr>
<tr>
<td>DHY 201</td>
<td>(8)</td>
<td>Clinical Dental Hygiene 4</td>
<td>Fourth in a series of supervised clinical experiences with patient care involving the assessment, planning and implementation of clinical procedures.</td>
</tr>
<tr>
<td>DHY 203</td>
<td>(2)</td>
<td>Ethics and Jurisprudence</td>
<td>Focuses on the ethical, legal and regulatory issues facing a dental hygienist in a private dental office, community agency or independent practice. Through simulated cases, consider professional traits, theories of moral development, ethical dilemmas and principles, the Washington State Dental Practice Act, the hygienist-patient relationship and risk management in dental hygiene practice.</td>
</tr>
<tr>
<td>DHY 208</td>
<td>(2)</td>
<td>Periodontology II</td>
<td>Deepen study of periodontal diseases, including prevention, cause, prevalence, recognition, patient education, advanced treatment planning and appropriate treatment. Apply prevention and treatment techniques to patients with moderate to severe disease.</td>
</tr>
<tr>
<td>DHY 215</td>
<td>(2)</td>
<td>Selective Populations</td>
<td>Study the specific care modifications required to effectively deliver oral health services to patients with special mental, emotional and physical challenges or medical problems such as salivary dysfunctions, neurological impairments, immune system dysfunctions, cancer treatments and surgery.</td>
</tr>
<tr>
<td>DHY 220</td>
<td>(3)</td>
<td>Fundamentals of Dental Hygiene V</td>
<td>Fifth in a series focusing on the scientific principles underlying the assessment, planning and implementation of clinical procedures. Emphasizes higher level concepts needed for successful board certification and national examinations.</td>
</tr>
<tr>
<td>DHY 221</td>
<td>(8)</td>
<td>Clinical Dental Hygiene 5</td>
<td>Fifth in a series of supervised clinical experiences with patient care involving the assessment, planning and implementation of clinical procedures. Provide care to a broader range of clients in clinic. Emphasizes refining and integrating previously learned concepts and skills into an effective pattern of comprehensive case management. Demonstrate clinical judgment and decision-making based on scientific evidence and treatment outcomes.</td>
</tr>
<tr>
<td>DHY 222</td>
<td>(1)</td>
<td>Community Dental Health I</td>
<td>First of three courses in public and community health approaches to the prevention and management of dental and oral health needs. Emphasizes identification of community dental health programs with experience in schools, nursing homes, community centers and hospitals.</td>
</tr>
<tr>
<td>DHY 223</td>
<td>(2)</td>
<td>Community Dental Health II</td>
<td>Study community dental health program planning and development focusing on prevention of dental disease and practice through learning projects. Develop a community outreach program and execute it.</td>
</tr>
<tr>
<td>DHY 224</td>
<td>(2)</td>
<td>Community Dental Health III</td>
<td>Covers community dental health program planning and development focusing on prevention of disease. Integrates concepts and techniques regarding the selection and delivery of oral health services and education to underserved populations. Emphasizes program implementation and evaluation.</td>
</tr>
<tr>
<td>DHY 230</td>
<td>(3)</td>
<td>Fundamentals of Dental Hygiene VI</td>
<td>Explores the scientific principles underlying the clinical practice of dental hygiene. Develop high-level skills to enhance patient assessment, management and treatment.</td>
</tr>
<tr>
<td>DHY 231</td>
<td>(8)</td>
<td>Clinical Dental Hygiene 6</td>
<td>Sixth in a series of supervised clinical experiences with patient care involving the assessment, planning and implementation of clinical procedures.</td>
</tr>
<tr>
<td>DHY 233</td>
<td>(2)</td>
<td>Restorative Materials 3</td>
<td>Third laboratory course in restorative dental practice and materials focusing on correct placement of dental restorations on mannequins in the laboratory and patients in the clinic. Develop manipulative and carving skills in placement of amalgam and composite restorations as allowed by Washington law.</td>
</tr>
<tr>
<td>DHY 234</td>
<td>(2)</td>
<td>Restorative Materials 4</td>
<td>Fourth laboratory course in restorative dental practice and materials focusing on correct placement of dental restorations on mannequins and patients. Develop manipulative and carving skills in placement of amalgam and composite restorations as allowed by Washington state law.</td>
</tr>
<tr>
<td>DHY 235</td>
<td>(2)</td>
<td>Restorative Materials 5</td>
<td>Fifth laboratory course in restorative dental practice and materials focusing on correct placement of dental restorations on mannequins and patients. Develop manipulative and carving skills in placement of amalgam and composite restorations as allowed by Washington state law.</td>
</tr>
<tr>
<td>DHY 236</td>
<td>(2)</td>
<td>Restorative Materials 6</td>
<td>Final laboratory course in restorative dental practice and materials focusing on correct placement of dental restorations on mannequins and patients. Develop manipulative and carving skills in placement of amalgam and composite restorations as allowed by Washington state law.</td>
</tr>
<tr>
<td>DHY 238</td>
<td>(1)</td>
<td>Professional Issues</td>
<td>Covers the practice of dental hygiene including résumé development, interviewing techniques, patient scheduling systems, employment contracts, dental staff relations, understanding the business aspects of a dental practice, and development of a personal philosophy of practice.</td>
</tr>
<tr>
<td>DHY 240</td>
<td>(2)</td>
<td>Fundamentals of Dental Hygiene VII</td>
<td>Focuses on the scientific principles underlying clinical practice dental hygiene. Focuses on inter-professional relations, team-building, sharing new knowledge and the responsibilities of a practicing dental hygienist for professional development and lifelong learning.</td>
</tr>
<tr>
<td>DHY 241</td>
<td>(8)</td>
<td>Clinical Dental Hygiene 7</td>
<td>Seventh in a series of supervised clinical experiences with patient care involving the assessment, planning and implementation of clinical procedures in dental hygiene.</td>
</tr>
<tr>
<td>DHY 245</td>
<td>(1-5)</td>
<td>Applied Practice in Dental Hygiene</td>
<td>Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.</td>
</tr>
</tbody>
</table>
DHY 246 (1-5)
Applied Practice in Dental Hygiene
Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.

DHY 247 (1-5)
Applied Practicum in Dental Hygiene
Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.

DHY 248 (1-5)
Applied Practice in Dental Hygiene
Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.

DHY 249 (5)
Applied Practice in Dental Hygiene
Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.

DHY 250 (2)
Oral Biology
Study of oral histology including development of soft and hard tissues and all components of all anatomical structures, including all hard and soft tissues and all components of the circulatory system and cranial nerves. Prerequisite: Permission.

DHY 251 (3)
Human Pathology
Study of human pathophysiology includes the etiology, predisposing factors, mechanisms of disease, and characteristics of the disease process in each body system. Emphasizes specific disease entities most commonly seen in the clinical dental hygiene setting or that may influence an individual’s dental care.

DHY 252 (3)
Fundamentals Dental Hygiene I
Examines the theory and scientific principles underlying the clinical practice of dental hygiene. Emphasis on oral screening, infection control, and professionalism.

DHY 253 (3)
Clinical Dental Hygiene I
Apply the theory and scientific principles underlying dental hygiene practice. Covers professionalism, clinical preparation of the examining area, safety, patient privacy, documentation, and screening techniques.

DHY 254 (2)
Health Promotion
Intro to dental health education, patient education, health promotion, and the process of health-related behavioral change. Emphasizes assessment of educational needs, client-provider interaction, communication skills, cultural competence in healthcare delivery, and motivation to change.

DHY 255 (2)
Radiology I
Principles of oral radiology imaging stressing the physics of x-ray production and biologic effects of ionizing radiation. Includes radiation safety and protection, dental radiographic examination, and radiographic interpretation of anatomical structures of the head and oral cavity.

DHY 256 (2)
Dental Radiology I Practicum
Intro to dental x-ray equipment, processes and techniques. Emphasizes patient and operator safety, evaluation of technique and imaging quality, darkroom and digital operations, beginning level proficiency in exposing and analyzing intra-oral dental radiographs.

DHY 257 (2)
Head & Neck Anatomy
Didactic sessions teaching anatomy and function of the head and neck. Course draws on concepts taught in general anatomy and physiology classes. Students are introduced to the location, characteristics and function of all anatomical structures, including all hard and soft tissues and all components of the circulatory system and cranial nerves. Prerequisite: Permission.

DHY 258 (2)
Dental Anatomy & Morphology
Intro to nomenclature, anatomy, morphology and functions of the primary and permanent dentition. Focuses on healthy, normal end of the health/disease continuum and provides foundation for further dental science, clinical and restorative dental hygiene practice.

DHY 259 (1)
Dental Anatomy & Morphology (Lab)
Apply the theory and scientific principles of specific anatomical characteristics to lab drawings and wax carving. Intro to fine hand skills and basic instrumentation used for hygiene and restorative procedures.

DHY 260 (1)
Emergency Management
Intro to emergency management in the identification and treatment of medical emergencies, including prevention, patient assessment, stress reduction protocol, safe use of emergency drugs and equipment. Participate in class simulations of emergency treatment for common medical emergencies in the dental office.

DHY 261 (2)
Preventive Dentistry
Intro to primary prevention methods within the scope of dental hygiene practice. Emphasizes the relationship between oral disease processes and oral health preventive measures, home-care education of the patient, and methods of preventive care implemented by dental hygienists.

DHY 262 (1-8)
Applied Practice in Dental Hygiene
Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.

DHY 263 (5)
Special Projects in Dental Hygiene
Individualized study in dental hygiene-related subject matter arranged to meet the needs of students with specific levels of skills and background.

DHY 300 (4)
Clinical Dental Hygiene II
Apply the theory and scientific principles underlying dental hygiene practice. Intro to assessment of gingival and oral soft tissues, selected instrumentation, and periodontal and dental charting.

DHY 301 (4)
Clinical Dental Hygiene III
Apply the theory and scientific principles underlying dental hygiene practice. Intro to patient management, treatment planning, and dental hygiene treatment techniques.
DHY 302 (8)
Clinical Dental Hygiene IV
Apply the scientific principles underlying the assessment, planning and implementation of clinical procedures. Emphasizes biochemistry of food, nutritional counseling in dental hygiene practice and personal, professional and community issues related to HIV/AIDS.

DHY 303 (3)
Fundamentals of Dental Hygiene II
Examines the theory and scientific principles underlying the clinical practice of dental hygiene with emphasis on integration of screening information to formulate goals for planning dental hygiene treatment needs.

DHY 304 (2)
Fundamentals of Dental Hygiene III
Examines the theory and scientific principles underlying the clinical practice of dental hygiene with emphasis on principles of instrumentation, dental hygiene diagnosis, and professional development activities.

DHY 305 (2)
Fundamentals of Dental Hygiene IV
Focuses on the fundamental scientific principles underlying the assessment, planning and implementation of nutrition in dental hygiene. Emphasizes biochemistry of nutrients, nutritional counseling in dental hygiene practice, and personal, professional, and community issues. Prereq: Permission.

DHY 306 (2)
Dental Materials I
This is the first of two didactic courses focusing on the physical, chemical, mechanical and biological properties of dental materials used in both direct and indirect restorative procedures. Prereq: Successful completion of previous quarter’s B.A.S. in Allied Health Dental Hygiene courses with a minimum grade of 2.5 in each course or permission.

DHY 307 (1)
Restorative Practice I (Lab)
Covers clinical restorative dentistry focusing on the chemical, physical, mechanical properties of commonly used dental materials and their uses, manipulation and application. Learn to handle and manipulate different types of restorative filling materials into prepared cavities.

DHY 308 (2)
Restorative Dentistry II
This is the second didactic course focusing on the physical, mechanical, chemical and biological properties of dental materials commonly used in direct and indirect restorative procedures, and basic knowledge in materials used in preventive, periodontics, restorative and other specialty fields in dentistry. Prereq: Permission.

DHY 309 (1)
Restorative Practice II
This is the second lab course focusing on the physical, mechanical, chemical and biological properties of dental materials commonly used in direct and indirect restorative procedures, and basic knowledge in materials used in preventive, periodontics, restorative and other specialty fields in dentistry. Prereq: Permission.

DHY 310 (2)
Advanced Restorative Practice I
Covers restorative dental practice and materials, focusing on correct placement of dental restorations on mannequins and in the clinic on patients. Practice and develop manipulative and carving skills in the placement of amalgam and composite restorations as allowed by Washington State law.

DHY 311 (2)
Pain Control Anesthesia
Curriculum under development at time of printing.

DHY 312 (2)
Pain Control Anesthesia Practice
Curriculum under development at time of printing.

DHY 313 (3)
Periodontics I
Examines periodontal structures of the mouth from health to disease including clinical and histological aspects of periodontal disease. Includes various classifications of periodontal diseases, and disease progression as it relates to microbiology, etiology, and host response. Learn techniques of periodontal therapy using adjunctive chemotherapeutic agents and oral hygiene aides.

DHY 314 (2)
Dental Radiology II
Study of dental radiology including the principles and application of a full range of intraoral, extra-oral, digital and film radiographic examinations, advanced interpretation for diagnosis of dental anatomy, trauma, lesions, caries and pathology.

DHY 315 (1)
Dental Radiology II Practice
Learn application of basic radiographic examination techniques for dental patients stressing adaptation of techniques, consideration of presenting problems, variations of normal, supplemental radiographic procedures, analysis of outcomes, and advanced interpretation of diagnostic information.

DHY 318 (2)
Oral Pathology
Study lesions, pathologies, and abnormal conditions of the head, neck and oral cavity of significance in the clinical practice of dental hygiene.

DHY 323 (3)
Pharmacology
Study the general pharmacological and therapeutic actions of drugs with emphasis on those used in dentistry. Includes nomenclature, dosage, routes of administration, drug interactions, drug effects on the oral cavity, indications, contraindications, factors in patient treatment planning and legal factors involved in dispensing.

DHY 382, 383, 384 (1-8)
Applied Practice In Dental Hygiene
Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.

DHY 391 (1)
Community Dental Health I
Introduction to public dental health. Presents strategies to improve oral health outcomes through evidence-based research techniques, planning, and implementation of public health program models. Provides a foundation for a group community oral health project. Emphasis on community needs assessment and choosing a target population. Prereq: Completion of B.A.S. in Dental Hygiene previous quarter’s courses with a minimum grade of 2.5 in each course or permission.
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<tr>
<td>DHY 400, 401</td>
<td>Advanced Practice Dental Hygiene I</td>
<td>Supervised clinical experiences with patient care involving the assessment, planning, implementation, and evaluation of clinical procedures in dental hygiene. Prereq and Coreq: Enrollment into the dental hygiene program.</td>
</tr>
<tr>
<td>DHY 404, 405, 406</td>
<td>Principles Dental Hygiene Practice I</td>
<td>This course focuses on the scientific principles underlying the assessment, planning and implementation of clinical procedures in dental hygiene. This course emphasizes higher level concepts needed for successful board certification and national examinations. Course pre- and corequisite: enrollment into the dental hygiene program.</td>
</tr>
<tr>
<td>DHY 407</td>
<td>Strategies Capstone Project</td>
<td>This course is an introduction to a culminating educational experience whereby students have the opportunity to demonstrate mastery of learning in the field of dental hygiene. The course integrates experiential learning, coursework knowledge, clinical application, self-analysis along with strategies for completion and presentation of a Capstone project. Prereq and Coreq: Enrollment into the dental hygiene.</td>
</tr>
<tr>
<td>DHY 408</td>
<td>Capstone</td>
<td>This course concludes the culminating educational experience whereby students have the opportunity to demonstrate mastery of learning in the field of dental hygiene. The course integrates experiential learning, coursework knowledge, clinical application, self-analysis allowing the student to integrate and evaluate their overall educational experience. Prereq and Coreq: Enrollment into the dental hygiene.</td>
</tr>
<tr>
<td>DHY 409</td>
<td>Ethics &amp; Jurisprudence</td>
<td>Focuses on the ethical, legal and regulatory issues facing the dental hygienist practicing in a private dental office, in a community agency, or in independent practice. Examines professional traits, theories of moral development, ethical principles, the state dental practice act, the relationship with patients and employers, and risk management.</td>
</tr>
<tr>
<td>DHY 410</td>
<td>Advanced Restorative Practice II</td>
<td>Focuses on correct placement of dental restorations on mannequins and in the clinic on patients. Students practice and develop manipulative and carving skills in the placement of amalgam and composite restorations as allowed by Washington State law.</td>
</tr>
<tr>
<td>DHY 411</td>
<td>Advanced Restorative Practice III</td>
<td>Focuses on correct placement of dental restorations on mannequins and in the clinic on patients. Students practice and develop manipulative and carving skills in the placement of amalgam and composite restorations as allowed by Washington State law.</td>
</tr>
<tr>
<td>DHY 412</td>
<td>Advanced Restorative Practice IV</td>
<td>Focuses on correct placement of dental restorations on mannequins and in the clinic on patients. Students practice and develop manipulative and carving skills in the placement of amalgam and composite restorations as allowed by Washington State law.</td>
</tr>
<tr>
<td>DHY 413</td>
<td>Periodontics II</td>
<td>Study of advanced periodontal diseases, including cause, recognition, prevention, and treatment planning. Also covers periodontal surgery and implant care. Reviews periodontal concepts through case studies.</td>
</tr>
<tr>
<td>DHY 414</td>
<td>Selective Populations Practice</td>
<td>Introduction to etiologies, signs and symptoms, prognoses, medications, and oral healthcare strategies to optimize oral health outcomes for patients with selective medical conditions. Prereq: Successful completion of previous quarter's B.A.S. in Allied Health Dental Hygiene courses with a minimum grade of 2.5 in each course or permission.</td>
</tr>
<tr>
<td>DHY 415</td>
<td>Selected Populations Practice</td>
<td>This course consists of various laboratory externships through existing community organization affiliate agreements which provide supervised student experiences. Students will adapt the Dental Hygiene Process of Care for medically compromised high-risk patients to optimize oral health outcomes and provide caregiver oral health education as appropriate. Enrollment into the dental hygiene program: course pre- and corequisite.</td>
</tr>
<tr>
<td>DHY 416</td>
<td>Professional Issues</td>
<td>This course will explore issues encountered in a variety of dental hygiene employment settings including resume preparation, interview success techniques, malpractice insurance, employment contract negotiation, conduct and professional licensure, fundamentals of dental practice business concepts, employment team concepts, personal practice philosophy development, and the creation of a personal professional development plan. Prereq: Enrollment into the dental hygiene program.</td>
</tr>
<tr>
<td>DHY 419</td>
<td>Community Dental Health II</td>
<td>This course is the study of public and community health methodologies in oral disease prevention and program development. Students will establish contact with populations to develop presentations targeted to a specific demographic as a community health program or project. Students will learn the basics of research including data collection, dental indices application, biostatistics utilization, and program evaluation. Prereq and Coreq: Enrollment into the dental hygiene program.</td>
</tr>
<tr>
<td>DHY 420</td>
<td>Community Dental Health III</td>
<td>This course is the advanced study of public and community health methodologies in oral disease prevention and program development. Students will present an oral health program to target populations addressing a specific need and demonstrate research methodologies including data collection, dental indices application, biostatistics utilization, and program evaluation. Prereq and Coreq: Enrollment into the dental hygiene.</td>
</tr>
<tr>
<td>DHY 482</td>
<td>Applied Practice in Dental Hygiene</td>
<td>Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.</td>
</tr>
<tr>
<td>DHY 483</td>
<td>Applied Practice in Dental Hygiene</td>
<td>Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.</td>
</tr>
<tr>
<td>DHY 484</td>
<td>Applied Practice in Dental Hygiene</td>
<td>Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.</td>
</tr>
<tr>
<td>DHY 485</td>
<td>Applied Practice in Dental Hygiene</td>
<td>Applied practice in dental hygiene to meet the individual needs of students who require additional practice and reinforcement of techniques and skills in dental hygiene.</td>
</tr>
</tbody>
</table>
## Drama

### DRMA 101 (5)
**Intro to Theatre**
Intro to theatrical experience through play analysis, acting, directing, critique, stage and costume design, with emphasis on theatre as a performance art.

### DRMA 112 (5)
**American Sign Language Theatre**
Intro to artistic sign language expression and the principles of stage acting. Focuses on guided developmental processes, improvisation, scene study, technique and a working knowledge of character creation for the stage. Covers translating English to ASL. Prereq: ASL& 222 or permission.

### DRMA 114 (5)
**Mime and Physical Comedy**
Learn physical techniques for acting with the whole body and apply specific mime and movement and acting skills. Explore mime as playwright, creating original mime performances and presenting them to an invited public audience.

### DRMA 120 (5)
**Introduction to Acting**
Builds a foundation of theory and application with the broad use of improvisational techniques and movement for the actor.

### DRMA 121 (5)
**Acting**

### DRMA 122 (5)
**Acting**
Continuation of DRMA 121 with emphasis on characterization and further scene study. May culminate in public performances. Prereq: DRMA 121.

### DRMA 123 (5)
**Acting**
Continuation of DRMA 122 with further emphasis on scene study, critical analysis and scoring scripts. May culminate in public performances. Prereq: DRMA 122.

### DRMA 131 (5)
**Intro to Tech Theater**
Intro to the technical aspects of theatre: lights, sets, props and sound. Learn how these areas are created and managed and how each impacts a production. Work on the technical aspects of stage shows.

### DRMA 170 (2)
**Theater Appreciation – Musicals**
This course will introduce students to theatrical practices in order to make them more informed audience members. Through the lens of costume and makeup design, students will analyze the creation, collaboration, and communication of musical theater. Using Aristotle’s theater taxonomy, students will use their knowledge of costume and makeup design to assess theatrical communication in live musical theater performances. Prereq: Placement into ENGL 097/098 or higher.

### DRMA 171 (2)
**Theater Appreciation – Classical**
This course will introduce students to theatrical practices in order to make them more informed audience members. Through the lens of dramatic structure students will analyze the creation, collaboration, and communication of classical theater. Using Aristotle’s theater taxonomy, students will use their knowledge of dramatic structure to assess theatrical communication in live classical theater performances. Prereq: Placement into ENGL 097/098 or higher.

### DRMA 172 (2)
**Theater Appreciation – Realism**
This course will introduce students to theatrical practices in order to make them more informed audience members. Through the lenses of directing and acting, students will analyze the creation, collaboration, and communication of realistic theater. Using Aristotle’s theater taxonomy, students will use their knowledge of directing and acting to assess theatrical communication in live realistic theater performances. Prereq: Placement into ENGL 097/098 or higher.

### DRMA 173 (2)
**Theater Appreciation – Comedy**
This course will introduce students to theatrical practices in order to make them more informed audience members. Through the lens of set and prop design, students will analyze the creation, collaboration, and communication of comic theater. Using Aristotle’s theater taxonomy, students will use their knowledge of set and prop design to assess theatrical communication in live comic theater performances. Prereq: Placement into ENGL 097/098 or higher.

### DRMA 174 (2)
**Theater Appreciation – Contemporary**
This course will introduce students to theatrical practices in order to make them more informed audience members. Through the lens of light and video design, students will analyze the creation, collaboration, and communication of contemporary theater and performance art. Using Aristotle’s theater taxonomy, students will use their knowledge of light and video design to assess theatrical communication in contemporary theater and performance art. Prereq: Placement into ENGL 097/098 or higher.

### DRMA 200 (1-5)
**Special Projects: Drama**
Individual student-initiated and developed performances/projects under faculty supervision. Prereq: Permission.

### DRMA 201 (1-5)
**Special Studies: Drama**
Special project course. Content, credit and expectations are achieved through discussion with students, including tailoring the projects to student needs, instructor abilities, time frames and department activities. Prereq: Permission.

### DRMA 202 (1-5)
**Special Studies**
Special project course. Content, credit and expectations are achieved through discussion with students, including tailoring the projects to student needs, instructor abilities, time frames and department activities. Prereq: Permission.

### DRMA 204 (5)
**Intro Dance – Jazz I**
Intro to the world of concert Jazz dance. Includes basic concepts and principles of Jazz technique, muscle strengthening and flexibility exercises, building vocabulary of connective movements and skills for basic auditioning and memorizing choreography.

### DRMA 205 (5)
**Intro Dance – Jazz II**
Continuation of DRMA 204.

### DRMA 206 (5)
**Intro Dance – Jazz III**
Continuation of DRMA 205.
Course Descriptions

DRMA 211  (1-5)
**Theater Management**
Special project course in theater management. Content, credit and expectations achieved by discussion with students, including tailoring projects to student needs, instructor abilities, time frames and department activities. Prereq: Permission.

DRMA 221  (5)
**Advanced Acting**
Examination of acting styles and techniques with emphasis on scene study and analysis in contemporary and classical drama. Prereq: DRMA 123 or permission.

DRMA 222  (5)
**Advanced Acting**
Continuation of DRMA 221. Prereq: DRMA 221 or permission.

DRMA 223  (5)
**Advanced Acting**
Continuation of DRMA 222. Emphasis on longer acting projects and monologue repertoire. Prereq: DRMA 222 or permission. The following courses are variable-credit special projects in different aspects of theater. Content, credit and expectations are arrived at through discussion with students, a tailoring of the projects to student needs, instructor abilities, time frames and department activities. Prereq: Permission.

DRMA 224  (1-5)
**Production & Stage Management**
Develop writing skills for one-act plays by exploring dramatic structure, character development and the author's stylistic voice. Learn the roles of director, dramaturge, actor and other theatrical artists in the writing process. Includes critical analysis of published plays, readings and critiques of student work. Prereq: ENGL& 101 placement or permission.

DRMA 231  (1-5)
**Props & Sound**
Develop writing skills for one-act plays by exploring dramatic structure, character development and the author's stylistic voice. Learn the roles of director, dramaturge, actor and other theatrical artists in the writing process. Includes critical analysis of published plays, readings and critiques of student work. Prereq: ENGL& 101 placement or permission.

DRMA 251  (1-5)
**Stage Scenery**
Develop writing skills for one-act plays by exploring dramatic structure, character development and the author's stylistic voice. Learn the roles of director, dramaturge, actor and other theatrical artists in the writing process. Includes critical analysis of published plays, readings and critiques of student work. Prereq: ENGL& 101 placement or permission.

DRMA 261  (1-5)
**Stage Lighting**
Develop writing skills for one-act plays by exploring dramatic structure, character development and the author's stylistic voice. Learn the roles of director, dramaturge, actor and other theatrical artists in the writing process. Includes critical analysis of published plays, readings and critiques of student work. Prereq: ENGL& 101 placement or permission.

DRMA 271  (1-5)
**Acting**
Develop writing skills for one-act plays by exploring dramatic structure, character development and the author's stylistic voice. Learn the roles of director, dramaturge, actor and other theatrical artists in the writing process. Includes critical analysis of published plays, readings and critiques of student work. Prereq: ENGL& 101 placement or permission.

DRMA 281  (1-5)
**Directing**
Develop writing skills for one-act plays by exploring dramatic structure, character development and the author's stylistic voice. Learn the roles of director, dramaturge, actor and other theatrical artists in the writing process. Includes critical analysis of published plays, readings and critiques of student work. Prereq: ENGL& 101 placement or permission.

DRMA 284  (5)
**Playwriting**
Develop writing skills for one-act plays by exploring dramatic structure, character development and the author's stylistic voice. Learn the roles of director, dramaturge, actor and other theatrical artists in the writing process. Includes critical analysis of published plays, readings and critiques of student work. Prereq: ENGL& 101 placement or permission.

DRMA 291  (1-5)
**Theatrical Internship**
Individual student-initiated and developed performances/projects under faculty supervision. Prereq: Permission.

DRMA 292  (5)
**Theatrical Internship**
Individual student-initiated and developed performances/projects under faculty supervision. Prereq: Permission.

DRMA 293  (5)
**Theatrical Internship**
Individual student-initiated and developed performances/projects under faculty supervision. Prereq: Permission.

DRMA 298  (1-5)
**Independent Projects in Theater**
Individual projects in set design, lighting, costuming, directing, house management and acting, as determined by advanced drama students and the drama faculty. Prereq: Advanced standing, permission.

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**Early Childhood & Family Studies**

CFS 101  (2)
**M.E.R.I.T Seminar**
A series of workshops and classes designed to support The Managed Education and Registry Information Tool known as MERIT, Washington State's system for professionals in the field of early care and education and school-age professionals. Meets the initial 20-hour State Training & Registry System (STARS) training requirement. (This course was previously numbered CFS 299.)

CFS 110  (3)
**Developmentally Appropriate Activities**
Intro to working with children and families in designing welcoming, safe, healthy, and supportive learning environments. Prereq: Eligible for ENGL& 101 and MATH 084.

CFS 120  (3)
**Physical Intellectual Development**
Examines physical, cognitive, creative and linguistic developmental needs and stages of children from birth through pre-adolescence. Prereq: Eligible for ENGL& 101 and MATH 084.

CFS 130  (3)
**Social/Emotional Development**
Covers the social, emotional, self-esteem and identity development of children from birth through pre-adolescence. Explores methods and strategies for creating a holistic approach to supporting development. Addresses guidance and behavior management. Prereq: Eligible for ENGL& 101 and MATH 084.
## Finding Courses

Course names and course prefixes are cross-referenced in an index beginning on page 2. For example:

<table>
<thead>
<tr>
<th>PREFIX TO NAME</th>
<th>NAME TO PREFIX</th>
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<td>HIN</td>
<td>Watch Technology</td>
</tr>
</tbody>
</table>

Common Course Numbering explanation is on page 2.

### CFS 145 (3)
**Development During School Age Years**
Examines physical, social, emotional, cognitive and moral development of school-age children including the family, peer group and community. Covers individual differences, typical issues and areas of concern. Includes roles of practitioners and history and philosophies of various program models. Prereq: Eligible for ENGL& 101 and MATH 084.

### CFS 155 (3)
**Development During Adolescents Years**
Examines all stages of adolescent development within social and cultural contexts including family, peer group and community. Explores issues youth face, youth culture and values, coming of age and rites of passage. Prereq: Eligible for ENGL& 101 and MATH 084.

### CFS 180 (3)
**Guiding School Age Child**
Covers the social, emotional, self-esteem and the identity development from childhood to adolescence. Explores methods and strategies for creating a holistic approach to supporting development. Addresses guidance and behavior management. Prereq: Eligible for ENGL& 101 and MATH 084.

### CFS 208 (3)
**Planning & Space Design**
Theoretical and practical examination of successful, diverse, inclusive environments. Includes design of the learning environment, materials, family involvement, programming and activities. Applicable to recreation, tutoring, health, education, social services, cultural arts and other out-of-school-time environments. Prereq: Eligible for ENGL& 101 and MATH 084.

### CFS 215 (3)
**Math/Science with Young Children**
Explores the many ways young children integrate math and science concepts into their daily lives and how to support their classroom learning. Emphasis on promoting cognitive development, basic concepts of math and science taught during the early years, ways for supporting those groups typically underrepresented in the STEM fields. Prereq: Eligible for ENGL& 101 and MATH 084.

### CFS 223 (2)
**Physical Development in School Age**
Explores strategies and methods for incorporating cooperative games, sports, dance, creative movement and leadership development into youth programs. Examines and expands movement repertoire, coaching and mentoring skills and culturally diverse approaches. Prereq: Eligible for ENGL& 101 and MATH 085.

### CFS 225 (3)
**Assessment & Programming**
Covers approaches for assessing of the individual child, the family, an agency, and community, and developing programming for utilizing strengths and meeting needs. Prereq: Eligible for ENGL& 101 and MATH 084.

### CFS 228 (3)
**Child/Adolescent Sexuality**

### CFS 245 (3)
**Partnership with Diverse Family**
Focuses on understanding family structures and developing conceptual frameworks and strategies that support all members of the school and service community. Particular emphasis is on issues and approaches for working with family in urban environments. Prereq: Eligible for ENGL& 101 and MATH 084.

### CFS 252 (3)
**Violence Prevention**
Examines the nature of violence in our community, including institutionalized violence, media violence, domestic violence, bullying, and gangs. Covers impact of prevention programs, strategies and methods for community-building and empowerment. Prereq: Eligible for ENGL& 101 and MATH 084.

### CFS 263 (3)
**Children with Disabilities**
Focuses on the social, emotional, physical, legal, historical and environmental issues which may affect children and youth with disabilities and their families. Explores strategies for supporting an inclusive learning environment for children, youth, and families. Prereq: Eligible for ENGL& 101 & MATH 084.

### CFS 270 (1-3)
**Child & Family Health**
Explores the impacts of typical family stresses including health care, wellness, safety, childcare, nutrition. Focuses on ways for building strong communities. Prereq: Eligible for ENGL& 101 & MATH 084.

### CFS 280 (3)
**Methods for Cultural Relevance/Anti-bias Child & Family Studies**
Specific strategies for working with all families and creating holistic, inclusive learning communities. Includes awareness and strategies for addressing bias. Prereq: HUM 105 and Eligible for ENGL& 101 and MATH 084.

### CFS 284 (3)
**Literacy Development for Child/Family**
Understanding and practical strategies for literacy development, home-to-school connection and supporting English language learners. Prereq: Eligible for ENGL& 101 and MATH 084.

### CFS 290 (1-4)
**Budget and Finance**
Covers budget design and monitoring; money, credit and financial statements; bookkeeping and financial planning; taxes and other legal requirements; computer applications; fees and other revenue sources; grant writing and fund raising; the budget/quality link. Prereq: Eligible for ENGL& 101 and MATH 084.
CFS 296 (1-4)
Personnel & Supervision
Designed for program administrators; examines concepts and issues like staff development, evaluation and training, team building, communication, group dynamics and conflict management, developing personnel systems and procedures, performance contracts, living wages and benefits. Prerequisite: Eligible for ENGL 101 and MATH 084.

CFS 299 (2)
M.E.R.I.T.
A series of workshops and classes designed to support The Managed Education and Registry Information Tool known as MERIT, Washington State’s system for documenting professional achievements of early care and education and school-age professionals.

ECED & 105 (5)
Intro to Early Childhood Education
Explore the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices, and program models. Observe children, professionals, and programs in action. Students are required to work or volunteer directly with children.

ECED & 107 (5)
Health Safety Nutrition
Develop knowledge and skills to ensure good health, nutrition, and safety of children in group care and education programs. Recognize the signs of abuse and neglect, responsibilities for mandated reporting, and available community resources. Work/volunteer directly with children.

ECED & 120 (2)
Practicum: Nurturing Relationships
In an early learning setting, apply best practices for engaging in nurturing relationships with children. Focus on keeping children healthy and safe while promoting growth and development. Work/volunteer directly with children.

ECED & 121 (4)
Practicum II
This is the second of three field practicum classes. Apply best practices for engaging in nurturing relationships with children in an early learning setting. Focus on keeping children healthy and safe while promoting growth and development. Prerequisite: ECED & 120.

ECED & 122 (4)
Practicum: Nurturing Relationships III
This is the third of three field practicum classes. Apply best practices for engaging in nurturing relationships with children in an early learning setting. Focus on keeping children healthy and safe while promoting growth and development. Prerequisite: ECED 121.

ECED & 132 (3)
Infants and Toddlers
Examine the unique developmental needs of infants & toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally relevant care. Work/volunteer directly with children.

ECED & 134 (3)
Family Child Care
Learn the basics of home/family child care program management. Includes licensing requirements, business management, relationship building, health, safety, & nutrition. Guiding behavior, and promoting growth and development. Work/volunteer directly with children.

ECED & 139 (3)
Administration
Develop administrative skills required to create, open, operate, manage, and assess early childhood education and care programs. Explore techniques and resources available for Washington State licensing and National Association for the Education of Young Children (NAEYC) standard compliance. Work/volunteer directly with children.

ECED & 160 (5)
Curriculum Development
Investigate the integration of learning theory, program planning, and tools for curriculum development to promote growth in language, fine/gross motor, social-emotional, cognitive and creative skills in young children (birth-age 8).

ECED & 170 (3)
Environments—Young Child
Design, evaluate, and improve indoor and outdoor environments to ensure quality learning, nurturing experiences, and optimize the development of young children.

ECED & 180 (3)
Language/Literacy Development
Develop 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.

ECED & 190 (3)
Observing & Assessment
Collect and record observation of and assessment data in order to plan for and support the child, the family, and the community. Practice reflection techniques, summarizing conclusions and communicating findings.

Economics

ECON 100 (5)
Survey of Economics
Examines basic principles of economics, determination of national prosperity, income distribution, the role of government, price determination, allocation of resources, economic systems and market behavior.

ECON & 201 (5)
Micro Economics
Covers resource allocation and income distribution with emphasis on price determination, production costs and market structures. Application of economic reasoning to public issues and business. Prerequisite: MATH 098. Recommended: ENGL 101.

ECON & 202 (5)
Macro Economics
Intro to the aggregate measures in the economy: GDP, unemployment and inflation. Examines monetary and fiscal policies and their effects on the interest rate and inflation. Covers investment, economic activity and the employment of resources. Fulfills Global Studies and/or QSR requirement for AA degree. Prerequisite: MATH 098 or equivalent.

ECON 240 (1-5)
World of Work
Surveys how the process of work, job creation and compensation are affected by changing economic condition and institutional constraints. Explores personal career development, business conditions, and labor markets.

ECON 298 (1-5)
Special Topics/Economics
Independent study or field work in selected economics topics under the supervision of sponsoring faculty. Prerequisite: Permission.
Education

EDUC& 115 (5)
Child Development

To provide a foundation of information regarding the physical, social, communication, and cognitive development of children via multimedia presentations that reflect cross-cultural and global perspectives. Observations of children, research, vocabulary growth and application, and discussions serve as active learning experiences.

EDUC& 130 (3)
Guiding Behavior

Examine the principles and theories promoting social competence in young children and creating safe learning environments. Develop skills promoting effective interactions, providing positive individual guidance, and enhancing group experiences. Work/ volunteer directly with children.

EDUC& 136 (3)
School Age Care

Develop skills to provide developmentally appropriate and culturally relevant activities and care, such as preparing the environment, implementing curriculum, building relationships, guiding academic/social skill development, and community outreach. Work/volunteer directly with children.

EDUC& 150 (3)
Child/Family/Community

The course will develop students understanding about the ways in which child development is influenced by familial and community contexts. Students learn effective communication tools to explore cultures and demographics of families in society and identify community resources and strategies for involving families in the education of their child. This course requires the student to directly work/volunteer with children.

EDUC 197, 198, 199 (1-5)
Education Work Experience

Work, intern or volunteer in an educational setting. Prereq: Permission.

EDUC 200 (1-5)
Peer Tutoring

Tutor training and/or experience. Focus on tutoring techniques and problems in any setting. For more information contact Division offices in Humanities, Math & Science, Allied Health, Business, or Education on your campus.

EDUC& 202 (5)
Intro to Education

Intro to the Elementary Education profession. Overview of the education profession and U.S. educational system, including historical development, social foundations, and diversity of educational institutions. Focus on the K-8 system. Includes current theories, trends and issues in education and the community, roles and responsibilities of teachers, learners, and other school personnel. Prereq: ENGL 080 or permission.

EDUC& 203 (3)
Exceptional Child

Emphasizes diversity and a value-based approach to human exceptionality and disability using a lifespan view. An historical perspective covers current trends and practices in early intervention, special and general education and life-long supports for individuals with disabilities and their families.

EDUC 205 (5)
Intro to Education Field

Intro to K-12 education. Explores the complexity and dynamics of today's K-12 education environment. Includes suggestions for all-inclusive teaching methods geared toward the increasingly diverse multi-ethnic, multicultural and multi-lingual student population. Covers the new federal education bill, as well as the state of Washington student learning goals including the Essential Academic Learning Requirements (EALRS) for student learning.

EDUC 210 (5)
Intro to Bilingual Education

Fundamental principles in the education of second language learners. Examines their unique academic needs and defines effective bilingual education strategies to address these needs, including the effects of culture on language development and content-area instruction.

EDUC 211 (5)
Intro to Bilingual Education

Focuses on historical, legislative and socio-political background, including arguments for and against bilingual education. Includes a survey of research in bilingual education program design and an overview of the organization and structure of bilingual programs.

EDUC 220 (3)
Assessing Bilingual Students

Study of issues teachers must consider when assessing bilingual students, including eligibility testing, validity and reliability of standardized tests, alternative assessment, pre-assessment procedures and placement of bilingual students in special education.

EDUC 250 (3)
Paraprofessionals & Teachers: Partners

Comprehensive intro to knowledge and skills needed by paraprofessionals assigned to assist students in the instructional process and the teachers with whom they work. Includes roles and responsibilities of the paraprofessional, team-building and behavior management.

EDUC 271 (5)
ESL Reading/Language Art

Learn methods of assessment, placement and instruction of ESL students in reading and language arts. Focuses on instructional techniques for the literacy level and age of the ESL student and on integration of reading and language arts.

EDUC 272 (5)
Integrating ESL in Class

Specifically for the teacher with bilingual and monolingual students in the same classroom. Overview of current theories of language acquisition with a focus on practical instructional strategies. Covers a wide repertoire of strategies drawn from bilingual, ESL and mainstream methodologies.

EDUC 291 (5-10)
Using World as Classroom

Provides a unique opportunity to earn credit for various travel/study experiences in an international setting.

EDUC 298 (9)
ESL Methods for Diverse

Examines the languages, cultures and diverse learning styles of limited-English-proficient (LEP) learners and fosters teacher proficiency in English as a Second Language (ESL) methods which respond appropriately to learners' diverse needs and facilitate their English language development. Emphasis on communicative language teaching.

Engineering

ENGR 110 (2)
Engineering Orientation

Covers fields of engineering, career options and general information. Offered on a Satisfactory (S) grade basis only.

ENGR& 111 (4)
Engineering Graphics I

Covers principles of orthographic projection, freehand sketching, pictorials, lettering, scales and use of instruments, basic dimensioning and descriptive geometry. Intro to computer-aided and designed drafting. Prereq: MATH& 141.
ENGR& 112 (4)
Engineering Graphics II
Continuation of ENGR& 111. Includes basic principles of revolution and principles used to solve problems relating to curved and warped surfaces; intersection of surfaces; development of common shapes and surfaces; and procedures for finding the locus of a line. Prereq: ENGR& 111.

ENGR 142 (5)
Computer Programming
Central: Learn the general principles of modern programming, including how to design, implement, document, test and debug computer programs. Based on Java. Covers objects, messages, expressions, statements, methods, classes, conditionals, iterations, arrays and collections. Prereq: CSC 110 and MATH& 116 or 142 (C). ENGR 142 may be taken as CSC 142. South: Intro to computer science for scientists and engineers. Emphasize design, algorithms (variables, expressions, statements), abstraction (data types, functions) and analysis (correctness, efficiency). Prereq: CSC 110 and MATH& 141 (S). ENGR 142 May be taken as CSC 142.

ENGR& 204 (5)
Electrical Circuits
Covers basic circuit and systems concepts. Includes resistors, sources, capacitors, inductors and operational amplifiers. Includes solution of first and second order linear differential equations associated with basic circuit forms. Prereq: PHYS& 222 and MATH& 152.

ENGR& 214 (5)
Statics
Covers statics, Newton’s Laws, resultants, force systems, equilibrium diagrams, analysis by vector algebra of two- and three-dimensional structures, frames, machines, trusses, beams and friction. Prereq: MATH& 152 and ENGR 140 or PHYS& 221.

ENGR& 215 (5)
Dynamics
Studies motion and the forces which affect the motion, including rectilinear motion, curvilinear motion, plane motion, dynamic force analysis, work and energy, impulse and momentum. Prereq: ENGR& 214 with a 2.5 or better and MATH& 152.

ENGR& 224 (5)
Thermodynamics
Intro to thermodynamics from a macroscopic point of view. Development of the laws of thermodynamics and application to energy transformations and state changes. Prereq: MATH& 153, PHYS& 222 and CHEM& 161.

ENGR& 225 (5)
Mechanics of Materials
Covers basic relationships between axial, torsion, bending and shear loads acting on solid elements such as rods, shafts, columns and beams and their allowable stress, strains and deformations, Mohr’s circle of stress. Prereq: ENGR& 214 and MATH& 152.

ENGR 298 (1-5)
Special Topics
A seminar of selected topics and/or activities in engineering. Prereq: Variable, dependent on topic.

ENGR 299 (1-5)
Independent Study
Independent study of approved engineering topics. Prereq: Permission.

English
See Languages & Literature, page 48.

English as a Second Language
See Languages & Literature, page 48.

Environmental Science
ENVS 101 (5)
Intro to Environmental Science
Covers natural principles governing operation of the environment including interaction between humans and the environment, emphasizing attitudes and actions to maintain a healthy ecosystem. This course has a lab component focusing on major topics in environmental science. Prereq: ENGL& 101 eligibility and Math 098 (C); Prereq: ENGL& 101 recommended (N).

ENVS 150 (5)
Environmental Issues/Problems
Covers natural principles governing operation of the environment including interactions between humans and the environment, emphasizing attitudes and actions to maintain a healthy ecosystem. Prereq: Eligibility for MATH 084, 087, or 091 (C) and ENVS 101.

ENVS 160 (5)
Principles Environmental Sustainability
Investigates a variety of local and global sustainable initiatives to combat degradation of the natural environment. Combines the basic science of environmental issues with a critical analysis of the societal value and environmental impact of trends in sustainability. Covers efforts by non-profit organizations, communities, education initiatives, political reform and personal choices. Prereq: Eligible for ENGS 101 and MATH 084, 087, or 091 (C).

ENVS 170 (5)
Energy & Resources—Now & in the Future
Study of energy and material resources, both personal and worldwide production and consumption. Investigates the impact on the natural environment from production of coal, wind, solar and hydropower; gasoline, electricity and hydrogen fuel transportation; and natural gas and biomass heating options. Focus on sustainable alternatives to meet energy and material needs. Prereq: Eligibility for MATH 084, 087, or 091 (C).

ENVS 197 (1-5)
Internship Sustainable Agriculture
To view formalized SAGE internship partner announcements and register for internship credit, visit room BE 1103. Students may also pursue alternative internships of their choice with appropriate farms, businesses, organizations or agencies. Prereq: Instructor permission; eligibility for MATH 084 and ENGL&101 or permission.

ENVS 200 (2)
Sustainable Food Systems Employment Seminar
Seminar Presentations and panel discussions involve community members who work in sustainable agriculture, food systems and other natural resource careers. Identify opportunities to acquire the skills needed in this field. Prereq: Eligibility for ENGL& 101 and MATH 084, 087, or 091 (C) or permission.

ENVS 201 (5)
General Ecology
Covers the nature of ecosystems, energy flow, biogeochemical cycles, population dynamics, organization and dynamics of communities and identification of environmental problems.
ENVS 202 (5)
Principles Agroecology
Survey of sustainable agriculture particularly in the Pacific Northwest. Explore crop biodiversity, weed and pest management, livestock production and organic crop propagation. Includes water use and pollution, natural resource conservation and energy use on sustainable farms. Optional 2-credit service learning. Lab and weekend field trips. Prereq: Eligibility for ENGL& 101 and MATH 084, 087, or 091 (C) or permission.

ENVS 203 (5)
Environmental Issues/Problems II
Encompasses the role of technological humans in the global ecosystem. Covers current environmental topics with a view toward solutions. Includes urban growth, air and water pollution and siting of nuclear power plants. Prereq: An environmental science, geology or geography class, or permission.

ENVS 204 (5)
Intro Soil Science Restoration
Understand soils as living systems. Explore physical, chemical and biological properties; nutrient cycling; fertility analysis and management; decomposition and composting; soil restoration; site diagnosis and classification of soils; and conservation practices. Lab and weekend field trips. Prereq: Eligible for MATH 084, 087, 091 (C) and ENGL& 101 or permission; ENV 202.

ENVS 205 (3)
East African Bio-Culture
For educators interested in developing classroom materials based on topics and areas covered by the East Africa Study and Travel Program. Field trip.

ENVS 206 (5)
Agroforestry Systems
Agroforests integrate woody plants and forest elements with crops and animals for increased productive, socioeconomic, environmental and ecological benefits. Examine origin and modern adaptations, working hypotheses, management systems and practices, site diagnosis and design. Optional 2 credit service learning. Lab and weekend field trips. Prereq: Eligible for MATH 084, 087, or 091 (C) and ENGL&101 or permission; ENV 202 and 204 recommended.

ENVS 208 (5)
Eco Science Management Conservation
Covers natural and human dimensions of forest ecology and land use in the context of Pacific Northwest and global environmental issues. Emphasis on forest ecosystem patterns and processes under various conditions of management and conservation. Optional 2 credit service-learning. Lab and weekend field trips. Prereq: Eligible for MATH 084 and ENGL& 101 or instructor permission; ENV 202 and 204 recommended.

ENVS 214 (5)
Urban Food System Analysis
Investigates the complex ecological, social and economic interactions of the food system. Emphasis on food security in urban areas, through food banks, urban gardens, food cooperatives and farmers markets. Optional 2 credit service learning. Lab and weekend field trips. Prereq: Eligible for MATH 084 and ENGL& 101 or instructor permission; ENV 202 and 204 recommended.

ENVS 216 (5)
Sustainable Urban Food
Covers history, principles and practices of biointensive urban gardening. Explore methods to increase yields, and conserve and maintain healthy ecosystems. Includes garden planning, soil preparation, composting, backyard livestock, seeds, transplanting, perennial food plants, and food preservation. Lab and weekend field trips. Prereq: Eligible for MATH 084 and ENGL&101 or permission; ENV 202 and 204 recommended.

ENVS 221 (5)
Nuclear Choices
Covers nuclear-generated electricity, nuclear waste, and nuclear weapons, including those existing and those proposed for the near future. Explores possible defenses against nuclear war and ways to avoid it. Writing class.

ENVS 294 (2)
Sustainability Seminar S
Explores sustainable development and invites speakers to demonstrate how they apply sustainable principles to their field of work.

ENVS 298 (1-5)
Special Topics
Seminar of selected topics and/or activities. Prereq: Variable, dependent on topic.

ENVS 299 (1-5)
Special Problems
Independent study of approved topics in environmental sciences. Prereq: Permission.

Expanded Function Dental Auxiliary

EFDA 100 (1)
Procedures I
Reviews and reinforces the duties and skills of a dental assistant: oral hygiene instructions, radiographs, coronal polishing and fluoride treatments. Covers final impressions. Perform many of these procedures under “general” rather than “close” supervision of a dentist.

EFDA 101 (3)
Restorative Lab I
Pre-clinical lab course. Practice skills and techniques on dentoforms and classmates. Clinical skills include radiographs, coronal polishing, fluoride treatments, use of dental materials, actual placement of amalgam and composite restorations on prepared typodont teeth, and taking final impressions on typodonts.

EFDA 110 (2)
Dental Coronal Anatomy
Covers dental anatomy related to the EFDA’s scope of restorative practice: tooth morphology, anatomical features and function. Emphasizes coronal anatomy, occlusion, Black’s classification of cavity preparation and basics of primary and permanent dentition.

EFDA 111 (2)
Dental Materials Techniques
Covers the chemical, physical and mechanical properties of dental materials, selection of the appropriate material, basic techniques, safety measures and proper handling protocol. Reviews cavity design and preparation of cements, bases and liners, placing, carving, polishing amalgam restorations and contouring and finishing anterior and posterior composites.
EFDA 200 (1)
Procedures II
Increase knowledge and skills including oral anatomy, dental anatomy and morphology, radiology, pharmacology, dental materials, patient case management and restorative dentistry procedures. Perform restorative procedures on typodonts and on patients. Prereq: EFDA 100.

EFDA 201 (4)
Restorative Clinic II
Demonstrate clinical competence on patients using the full range of basic restorative procedures, from patient management to technical skill of operating field isolation and restoration placement and finishing. Prereq: EFDA 101.

EFDA 202 (1)
WREB Preparation
Preparation for the Western Regional Examining Board (WREB) restorative examination for licensure. The WREB requires the placement, carving and finishing of one amalgam and one composite posterior class II restoration within a specific time frame at a minimum passing level. Practice simulation testing to develop sufficient proficiency. Prereqs: EFDA 100, 101, 110, 111.

EFDA 212 (1)
Ethics and Jurisprudence
Covers the ethical, legal and regulatory issues for an EFDA in private dental offices and community settings. Includes professional traits, theories of moral development, ethical dilemmas and principles, the state dental practice act, the EFDA-patient relationship and risk management in the dental practice. Prereq: EFDA 100, 101, 110, 111.

Gender & Women Studies

WMN 200 (5)
Intro to Gender Studies
Interdisciplinary, multicultural intro to Gender & Women Studies focusing on the way gender, race, class, sexuality and culture have shaped women's lives. Examines why women occupy similar and different locations in the United States and international cultures. Reading includes both narrative and analytical approaches.

WMN 205 (5)
Women in the Global Context
Interdisciplinary intro to the study of women in Asia, Africa, Latin America, the Middle East and/or indigenous women in some Western societies. Explores commonalities and differences among women in various societies and cultures. Focuses on women from specific societies or regions varying by instructor.

WMN 213 (5)
Women and Politics
Intro to concepts of power and policy issues as they relate to women. Covers theoretical, historical and empirical studies of women's participation in social and political movements nationally and internationally. Includes women's diverse roles in relation to family, economics, labor, government and law.

WMN 257 (5)
Psychology of Gender
Explores major psychological theories of sex differences. Examines studies of sex role development and biological and environmental influences that may determine and maintain sex differences in aggression, cognitive abilities, achievement, motivation, affiliation and sexuality. May be taken as PSYC 257.

WMN 298 (1-5)
Special Topic: Gender & Women Study
Independent research and writing on selected women studies topics under faculty supervision.

General Educational Development (GED)

GED 050 (1-18)
Basic GED Preparation 5
Prepare to pass the Language Arts Reading & Writing, Social Studies, Science and Math GED subject-area tests leading to the General Educational Development Certificate. Follows WA State Learning Standards. Aims for reading and math skills high enough to enter professional technical programs.

GED 051 (1-15)
Basic GED Prep Math 5
Prepares learners to pass successfully the GED Math test.

GED 052 (1-15)
Basic GED Prep Comm 5
Prepares learners to improve their general reading, writing and test-taking skills with special emphasis on reading for the GED Social Studies, Science and Language Arts tests.

GED 054 (1-15)
Basic Computer Assisted GED
Provides learners the opportunity to improve their general reading, writing, math and test-taking skills for the GED tests through the use of micro-computers and relevant basic skills software.

GED 060 (1-15)
Advanced GED Prep Level 6
Prepares learners to pass successfully the remaining GED tests needed to complete the official GED certificate.

GED 061 (1-15)
Advanced GED Prep Math 6
Prepares learners to use the math concepts and applications needed to pass the math portion of the official GED test.

GED 062 (1-15)
Advanced GED Prep Comm 6
Improves general reading, writing and test-taking skills with special emphasis on reading for the GED Social Studies, Science and Art and Literature tests.

GED 064 (1-15)
Computer-Assisted GED Prep 6
Improves general reading, writing, math and test-taking skills for the GED tests through the use of micro-computers and relevant basic skills software.

Geography

GEOG& 100 (5)
Intro to Geography
Introduction to major concepts of geography, climate, landforms, and biogeochemical processes. The course also concentrates on analysis of population demographics, culture, language and religion, food production, patterns of urbanization, paths to economic growth, resource use, and environmental concerns in a globalized world.
**GEOG 155 (5)**  
**Global Political Geography**  
Survey of political geography and scientific theory, offering students an analytical understanding of forces affecting the territorial and functional role of the state in today’s world. Examines contemporary cases of territorial and functional change among states.

**GEOG 200 (5)**  
**Human Geography**  
Intro to human patterns on the Earth’s surface, distribution, political divisions and economic activities. Emphasis on the role of geography in understanding the developments and diffusion of value systems and cultural differences in the 20th century.

**GEOG 205 (5)**  
**Physical Geography**  
Survey of character and location of different types of land forms, climates, soils, vegetation, minerals, water resources and significance to human occupancy.

**GEOG 207 (5)**  
**Economic Geography**  
Focus on human survival. Examines resource scarcity and uneven distribution and use of technology to extract natural resources. Emphasis on competition for resources and major world conflicts, past and present, stemming from this competition.

**GEOG 230 (5)**  
**Urbanization in Developing Nations**  
Focus on cities in their cultural and economic contexts, geographical patterns, internal structure, current problems in rapidly growing cities and selected policy solutions.

**GEOG 298 (1-5)**  
**Special Topics/Geography**  
Independent study in selected geography topics under faculty supervision. Prereq: Permission.

### Geology

**GEOG 105 (5)**  
**Intro Field Geology**  
Survey of physical geology, including the Earth’s interior and exterior. Covers the origin and evolution of the Earth, rocks and minerals, surface processes such as glaciation, river erosion and transport and mass movement. Field exercises involve data collection and analysis. Course may require extended overnight stays. Lab included. Prereq: Eligible for MATH 084, 087, 091 (C).

**GEOG 110 (5)**  
**Environmental Geology**  
Covers the effects of geologic processes and materials on human activity, and the effects of human activity on the Earth. Emphasizes awareness of geologic aspects of our everyday environment including the identification of problems, and the formulation and evaluation of solutions. Lab included. Field trips may be required. Prereq: Placement into MATH 098 or equivalent or permission. Placement into ENGL& 101 is strongly recommended (N).

**GEOG 111 (1)**  
**Geology Field Day**  
A one-day field trip and five-hour lecture on active and ancient geology in the Pacific Northwest. Topics include faults, glaciers, fossils, landslides, and the Cascade Mountain Range. Lab credit. Also offered as SCI 111.

**GEOG 118 (1)**  
**Volcano Field Day**  
Introduction to the origin and destruction of the Cascade volcanoes such as Mount St. Helens, Mount Rainier and Glacier Peak. Includes five hours of lecture and a one-day field trip. Lab credit. Also offered as SCI 118.

**GEOG& 208 (5)**  
**Geology of the Northwest**  
Covers the geologic history and description of Washington, Oregon and Idaho, and selected nearby areas. Emphasis on use of geologic principles to interpret present landscapes. Lab and field trips included. Prereq: GEOG& 101 or permission.

### German

*See Languages & Literature, page 48.*
DES 147 (3.5)  
Graphic Production III  
Intro to the basic skills, concepts and techniques of successfully using the pixel-based program Adobe Photoshop. Learn to color correct a photo using curves and levels, create a non-destructive work flow and select the correct tool for the job.

DES 151 (3.5)  
Interactive I  
This course will address the considerations needed when designing an interface and the differences and similarities between screen-based media and print-based media. This course is intended for the beginner to intermediate graphic design student who has an interest in designing interfaces for websites, mobile devices, kiosks, computer applications, and more.

DES 152 (3.5)  
Interactive II  
Covers the basics of webpage design and development. Addresses the challenges of developing a series of webpages using the structural elements of HTML and the stylistic elements of CSS.

DES 153 (3.5)  
Interactive III  
Design the user-experience for a website and build the final site using HTML and CSS. Includes the User-Centered Design process, designing a site architecture, conducting usability studies, producing task-flows and wireframes, and creating responsive site layouts.

DES 197 (1-5)  
Work Experience/Advanced Art  
Earn work experience credit in Graphic Design. Prereq: Permission.

DES 223 (4)  
Typography III  
Interpret an author’s written language into a meaningful visual form using the basic principles of traditional book design and typographic conventions. Create a case-bound book that eloquently expresses the author’s words filtered through the student’s interpretation.

DES 231 (4)  
Graphic Design IV  
Explore advertising, art direction and photo direction, emphasizing expressive, creative and collaborative problem solving. Develop further research skills. Learn techniques for creating engaging ads for a variety of media and targeting the right market with the right messages.

DES 232 (4)  
Graphic Design V  
Course explores multi-page editorial design, taking into account the audience and existing advertising base. While the focus will be on magazines, the skills developed are also applicable to other common design tasks-annual reports, business documents, newspapers, brochures, newsletters and other multi-page documents.

DES 233 (4)  
Graphic Design VI  
Covers poster design as a form of visual communication. Emphasizes conceptual visual problem-solving for various audiences and outcomes. Solve various poster design problems with a variety of visual approaches, including typography, graphics, Illustration and/or photography.

DES 234 (4)  
Graphic Design VII  
Design and produce a corporate identity system, including trademark or logo and applied graphics, for a mix of visual applications for a business. Covers research, mind-mapping, creative development, contemporary design approaches, and creating a complete system.

DES 235 (4)  
Graphic Design VIII  
Design and install the SCCA Portfolio Show. Working in teams, explore creative options to the layout and navigation of the show. Include 2-D and 3-D display installation options, print and web portfolios displays, motion graphics, internal and external signage in the planning.

DES 236 (4)  
Graphic Design IX  
Acquire work contracts with a client and apply design skills in exchange for a fair wage or equitable trade. Gain practical experience with pricing and negotiating fees, writing proposals and design briefs, organizing efficient timelines, managing workflows, and applying basic accounting and business practices.

DES 249 (4)  
Graphic Production IV  
Use InDesign and Acrobat for organization, layout and production of long documents such as magazine and books. Use guides, styles, master pages, editing tools and PDF options in simple and complex layouts. Organize files with Adobe Bridge, prefligthing and packaging.

DES 251 (4)  
Interactive IV  
Learn to design interfaces such as websites, mobile devices, kiosks, computer applications. Study the differences between screen-based media and print-based media.

DES 252 (4)  
Interactive V  
Study a variety of content management systems, focusing on the popular, free, open-source WordPress blogging platform. Build an entire WordPress website for a community non-profit client.

DES 253 (4)  
Interactive VI  
Covers User Experience (UX) design, rapid prototyping, usability testing, and interface design challenges for smaller screens. Create animated mock-ups of mobile applications and build functional websites with HTML5 and CSS3 media queries.

DES 260 (4)  
Portfolio Prep  
Develop, design and prepare a portfolio that represents individual creativity and demonstrates skills for seeking employment in the Graphic Design field. Develop a personal business card and stationery.

DES 270 (4)  
Environmental Graphics I  
Explore graphics designs that are sensitive to human scale in built and natural environments, including way-finding systems, informational signs and symbols, exhibit design and ornamental solutions.

DES 280 (4)  
Special Projects I  
First of three courses that expand current graphics design knowledge and skills through work on a major self-initiated design project. Emphasizes research and design process to reach a successful design solution.

DES 281 (4)  
Special Projects II  
Second of three courses that expand current graphics design knowledge and skills through work on a major self-initiated design project. Emphasizes research and design process to reach a successful design solution.

DES 282 (4)  
Special Projects III  
Third of three courses that expand current graphics design knowledge and skills through work on a major self-initiated design project. Emphasizes research and design process to reach a successful design solution.
**Health**

**HEA 125 (5)**

**Health and Wellness**

Overview of health as an individual and community-based social construct. Analyzes health determinants and health outcomes as a function of genetics, culture, environment and health behaviors. Emphasizes a holistic model and intellectual inquiry into what constitutes health and well-being. Prereq: MATH 084 and ENGL& 101. Eligibility for MATH 084, 87, or 91. Completion of ENGL& 101 with a 2.0 or better (C).

**HEA 225 (5)**

**Global Health**

Examines global patterns of health and disease as a function of economic, social and cultural determinants. Includes measurement of health outcomes, comparative analysis of health care systems, health and disease patterns of epidemiology, transnational disease, health inequalities and major players in global health. Prereq: Eligibility for MATH 084, 87, or 91. Completion of ENGL& 101 with a 2.0 or better (C).

**HEA 226 (2)**

**Advanced Global Health Seminar**

Self-directed study, including research and presentation, of an area of global health. Prereq: Completion of HEA 225 or completion of MATH 084, 87, or 91 and ENGL& 101 with a 2.0 or better and instructor permission (C).

**HEA 228 (5)**

**Water, Gender, and Global Health**

Study global health issues, particularly relating to gender and/or access to adequate and clean water. Includes water-borne and water-related diseases and analysis of various causes of maternal mortality. Involves interdisciplinary problem-solving. Requires 16 hours of service learning in local community. Prereq: HEA 225 or permission.

**HEA 229 (1-5)**

**Independent Study**

Independent study in health education. Prereq: Permission.

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**High School Completion**

See Adult Basic Education High School Completion, page 7.

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**History**

**HIST 105 (5)**

**Intro to American Civilization**

Intro to American history, government and culture for foreign-born students. Includes past and present political, cultural and socioeconomic aspects. Emphasis on developing cross-cultural understanding and an appreciation of the diversity inherent in American culture.

**HIST 120 (5)**

**Survey of African History**

Surveys the complexity of African societies, including colonialism and its impact, the rise of socialism, the Cold War, as well as trade, kinship and traditional practices.

**HIST 122 (2)**

**Local History/Field Trips**

First-hand view of historic Seattle. Includes lectures and field trips to historic sites.

**HIST& 126 (5)**

**World Civilizations I**

Reviews the historic foundations and development of civilizations from 6000 BCE to 1500 CE with emphasis on social, political, cultural and economic aspects. Studies the nature of history and its role as an intellectual and academic discipline.

**HIST& 127 (5)**

**World Civilizations II**

Reviews the foundations of modern civilization with emphasis on the scientific, industrial and political revolutions that have transformed societies. Emphasis on the period between 1500-1750 and the resulting cross-cultural contact on a global scale.

**HIST& 128 (5)**

**World Civilizations III**

Study of world civilization during the 19th and 20th centuries. Survey of dramatic events and often-conflicting forces and ideologies affecting contemporary life. Analysis of modern peoples’ solutions to challenges and problems confronting civilization.

**HIST 130 (3)**

**History of Broadcasting**

Examines the development of broadcasting in radio and television. Explores the impact of cultural contributions, show business, news, advertising and telecommunications technology.

**HIST 131 (5)**

**Asian-American History**

Covers the experience of Asians in the United States from the 1770s to the present. Emphasizes the impact of exclusionary immigration laws, community responses and the transformative effects of the Civil Rights era. Surveys the experiences of the Chinese, Japanese, Filipino, Korean, Asian Indian and Southeast Asian refugees.

**HIST& 136 (5)**

**United States History 1: to 1877**

Reviews U.S. history from the migration of the first Native populations through Reconstruction. Focuses on encounters, territorial expansion and development of political, social, cultural, legal and economic institutions affecting the populations in regions that became the United States.

**HIST& 137 (5)**

**United States History 2: 1877-Present**

Covers U.S. history from the Civil War to the present. Focuses on industrial and urban development, immigration, race, ethnicity and reform, politics, economics, social change and Americans at war.
HIST 138 (5)
Survey of Chicano History
Surveys Chicano and Latino history from the Spanish European background and pre-Columbian civilization of Mexico to the social, economic and political experiences of the Chicano people in the U.S. Emphasis on Mexican history.

HIST 140 (5)
Women in American History
Surveys U.S. women's roles, work, status, accomplishments, issues and movements, from the pre-Colonial period to the present.

HIST 145 (5)
Women, Race, and Class
Focuses on the United States and its historical stratification by race, sex and class. Examines the experience of women in their own words, with emphasis on women of color. Examines her story to help in understanding the conflict facing the divided women's movement.

HIST& 146 (5)
United States History I: Until 1791
Study of what is now the USA in its formative period, from its Native, European, and African origins to early nationhood. Emphasis on the American Revolution. Prereq: Eligible for English 101 (C).

HIST& 147 (5)
United States History II: the 1800s
Examines changes shaping American society in the 1800s: slavery, sectionalism, the Civil War, the westward movement, industrialization and emergence of the United States as a world power. Emphasizes social change and conflicts, including abolitionism, women's rights, labor, immigration, Manifest Destiny, Reconstruction, and the Gilded Age. Prereq: Eligible for English 101 (C).

HIST& 148 (5)
United States History III: 1900-Present
Covers an era of conflict, war, uncertain peace, depression and great social changes. Emphasizes historical, economic, social, racial and political events that have formed the modern U.S.

HIST 150 (5)
Multicultural Experiences United States
Focuses on the history of selected communities of people of color in America. Emphasizes a historical approach to understanding contemporary American issues by examining both the lived experiences of specific people of color and the larger history of race and ethnicity in the United States.

HIST 191 (5)
Biography & American History
Examines the place and role of selected figures in the making of American history, not as a search for the hero or heroine, but as an inquiry into the human potential for affecting society in terms of change and development.

HIST 200 (5)
Critical Issues for 21st Century
Examines current global issues from global perspectives, using materials from diverse history sources and the research tools of the historian.

HIST 208 (5)
Tsars & Soviets: Russian Civilization
Focuses on political, cultural and social life, stressing continuity and change from pre-revolutionary Tsarist Russia to the 1990s.

HIST 210 (5)
The Pacific Century
Study of the transformation of selected Asian Pacific countries and their histories and roles in the modern world. Emphasis on responses to the problems and challenges of economic, political and social development.

HIST 212 (5)
Vietnam Era
Reviews U.S. history from 1945-1975, with special emphasis on the American War in Vietnam. Explores the Civil Rights movement, the Cold War, the role of media, the rise of the “counter-culture,” and the development of the New Left and the anti-war movement.

HIST& 214 (5)
Pacific Northwest History
Investigates the history of the Pacific Northwest from earliest human habitation to the present. Focuses on Washington state and the Puget Sound, contributions by diverse populations, environmental developments, and the region's changing roles within the context of national and global developments.

HIST 218 (5)
Field Trip: Europe
Take a field trip to Europe to visit historic monuments, cities, castles, museums, churches and other areas relative to studies in the classroom. Average length of experience is three weeks.

HIST& 219 (5)
Native American History
Examines Native American histories from pre-colonial times to the present. Analyzes interactions with non-Natives, especially conflicting cultural, political and economic values.
HOS 103  (1)  
**Customer Service Practicum III**

Students acquire expertise in customer service by performing opening and closing procedures, training bus staff and using a variety of service techniques including the French, English and Russian styles of table service. Prereq: Successful completion of previous quarter's Seattle Culinary Academy courses with a minimum GPA of 2.0 in each course.

HOS 104  (1)  
**Customer Service Practicum IV**

Introduction to leadership positions in the front of the house. Includes maître d’ duties, managing reservations, cashiering, tableside food preparation and service in a fine dining setting. Prereq: Successful completion of previous quarter's Seattle Culinary Academy courses with a minimum GPA of 2.0 in each course.

HOS 105  (1)  
**Customer Service Desserts Breads**

Students assume responsibility for opening/closing, sales, organization and merchandising of product, and training of first-quarter students at a retail pastry case. Prereq: Successful completion of previous quarter's Seattle Culinary Academy courses with a minimum GPA of 2.0 in each course.

HOS 108  (4)  
**Dining Room Kitchen Management**

Students experience supervisory roles in a variety of management situations in both the front and back of the house. This class also includes tableside cooking and service coordination for other students’ chef of the day projects.

HOS 110  (3)  
**Principles of Sanitation**

Fundamentals of food service sanitation and its importance to the industry. Includes microorganisms in food spoilage and foodborne illness, ways of limiting microbial contamination and growth, creating a clean and sanitary environment, accident prevention and first aid, Material Safety Data Sheets, sanitation in crisis situations, principles of designing safe and sanitary kitchens and government regulations. Prereq: Admission into the Culinary Arts Program.

HOS 111  (1)  
**Intro to Customer Service**

Covers the theory and operation of table service in a variety of dining environments. Includes dining room safety, proper service and etiquette, guest interaction, menu knowledge, ticket writing and use of a variety of dining room equipment. Prereq: Successful completion of previous quarter’s Seattle Culinary Academy courses with a minimum GPA of 2.0 in each course.

HOS 120  (1)  
**Industry Work Experience**

Students will work in various hospitality operations for 500 hours. Work performance must be documented and one supervised report will be included. Students will also be required to complete a community service segment as well as a professional service segment. Instructor contact will be one hour per week to discuss work experiences, analyze industry trends, and complete the supervised report.

HOS 122  (1)  
**Purchasing & Inventory: Theory**

Intro to principles of inventory procedures. Encompasses formal and informal purchasing methods, flow of goods, food buying, legal and ethical purchasing considerations, market analysis, stock rotation, bid specifications, yield and cost comparisons, quality tests and inventory. Prereq: Successful completion of previous quarter's Seattle Culinary Academy courses with a minimum GPA of 2.0 in each course.

HOS 123  (1)  
**Food Costing Principles**

Explores connection between profit and food cost; discusses product waste and defines costing terms and purchasing units. Use mathematics skills to make conversions, cost bulk and sub-recipes and calculate the selling price of a menu item. Prereq: Successful completion of previous quarter's Seattle Culinary Academy courses with a minimum GPA of 2.0 in each course.

HOS 124  (2)  
**Computerized Menu Planning**

Learn various menu layouts and designs. Learn and use proper menu language while using word processing and spreadsheet programs in the creation of menus. Perform weight to volume conversions while learning how to cost out recipes. Prereq: Successful completion of 3rd quarter Culinary Arts Program courses with a minimum GPA of 2.0 in each course.

HOS 150  (2)  
**Measurements/ Meanings**

Covers the ways measurements, numerical expressions and calculations are used in the culinary and pastry arts. Learn to perform basic calculations, use percents, measure ingredients, calculate and adjust the yield of recipes, cost recipes, price menu items and interpret data in chart and graph format. Prereq: Program enrollment.

HOS 181  (5)  
**Intro to Hospitality Management**

Introduces students to management, the business world and the hospitality industry, focusing on food service, lodging and tourism. Includes hotel operations, restaurant development, meetings & conferences, gaming/casinos, bed & breakfasts, ADA (Americans with Disabilities Act), discrimination, sexual harassment, beverage management, leadership styles, negotiation strategies, motivation, decision making, problem solving, delegating, human resources techniques, wines and spirits, marketing, labor unions, income statements, balance sheets and business development. Prereq: Admission to Hospitality Management program.

HOS 197  (1-15)  **Work Experience: Foods – Hospitality**

Earn credits while working in the hospitality industry.

HOS 201  (2)  
**Functions of Management**

Covers management and communication theories and practices within the culinary arts and baking industries. Includes intro to the hospitality industry and overview of the Americans with Disabilities Act, sexual harassment, as well as other legal and human resource topics. Presents communications skills, functions of management, beverage management, financial statement analysis and résumé writing. Prereq: Successful completion of previous quarter’s courses with minimum GPA of 2.0 in each course.

Human Development

HDC 100  (1-3)  
**Career Plan/ Personal Evaluation**

Intro to a systematic approach to help the individual gain a better understanding of self relating to occupational interests and goals. Includes testing and discussions of values, interests and skills.

HDC 101  (1-3)  
**Orientation to College Success**

Assists new students in their adjustment to community college. Includes goal-setting, self-motivation skills, identifying college resources, personal development and general study hints.

HDC 102  (3)  
**College Survival Skills**

Assists new and struggling students to identify and develop strategies for success in college and life. Includes learning effective study skills and use of college support services.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDC 103</td>
<td>3</td>
<td>Critical Thinking</td>
<td>Covers methods of comparison, inference and deduction to solve abstract and practical problems. Sequential steps in the evaluation of people, knowledge and values, in which thinking becomes more complex and less categorical and absolute. Designed to start a reflecting process that helps in understanding how cultural beliefs, attitudes and values affect the way we think.</td>
</tr>
<tr>
<td>HDC 106</td>
<td>1-2</td>
<td>Interview, Resume, Job Hunting</td>
<td>Focuses on the development of cover letters, résumés, interviewing skills and job-hunting strategies.</td>
</tr>
<tr>
<td>HDC 111</td>
<td>1</td>
<td>Math Study Strategies</td>
<td>Introduces students to study skills to improve math success. Covers reading, note-taking, test-taking, math anxiety and college resources. Most appropriate for students who struggle with math or have not taken a math class for a long time. PREREQ: Test placement at or higher than ENGL 097 or equivalent course completion.</td>
</tr>
<tr>
<td>HDC 112</td>
<td>1</td>
<td>Managing Time and College Expectations</td>
<td>Emphasizes development of effective time management skills and a thorough understanding of classroom and campus expectations, student responsibilities and campus resources to foster success in college.</td>
</tr>
<tr>
<td>HDC 113</td>
<td>1</td>
<td>Read and Note Taking Strategies</td>
<td>Become a self-directed learner for reading and thinking academically and personally. Focuses on the development of practical knowledge and strategies to assist students towards that goal.</td>
</tr>
<tr>
<td>HDC 114</td>
<td>1</td>
<td>List and Lecture Note Taking</td>
<td>Develop ability to take more effective lecture notes through exploration of some well-known note-taking systems. Enhance listening skills and learn to use notes as a study tool.</td>
</tr>
<tr>
<td>HDC 115</td>
<td>1</td>
<td>Test Taking Skills</td>
<td>Strategies for effective test-taking and test anxiety to enhance testing performance and curriculum retention. Includes assessment of personal learning style, test and question types and strategies, study habits and environment, anxiety reduction strategies, resources and planning for testing.</td>
</tr>
<tr>
<td>HDC 120</td>
<td>1-5</td>
<td>Leadership, Theory, and Practice</td>
<td>Explores theory behind visionary, servant and citizen leadership styles. Covers practical leadership skills such as time management, goal-setting and effective communication. Emphasizes involvement in various student activities and programs.</td>
</tr>
<tr>
<td>HDC 121</td>
<td>2</td>
<td>Peer Advising</td>
<td>Focus on communication skills, problem-solving, interviewing techniques and leadership potential. Upon successful completion of the course, students work in the Advising Center, assisting fellow students in understanding degree and transfer requirements and planning their quarterly programs of study.</td>
</tr>
<tr>
<td>HDC 125</td>
<td>1-3</td>
<td>Learning Strategy Math</td>
<td>Identifies emotional and cognitive barriers to math learning. Covers research-based skills for strengthening math approach and performance. Includes learning styles, anxiety management, relaxation techniques, cognitive behavioral strategies, memory storage and retrieval, and other skills related to math success.</td>
</tr>
<tr>
<td>HDC 190</td>
<td>1-2</td>
<td>Women in Society</td>
<td>Examines women’s changing social roles—locally, nationally, globally—and their effects on women. Explores how these issues relate to college students facing challenges such as achieving goals, balancing responsibilities, overcoming barriers; and establishing inclusiveness. All genders encouraged to enroll.</td>
</tr>
<tr>
<td>HDC 197</td>
<td>1-3</td>
<td>Leadership Practice &amp; Application</td>
<td>Earn credit for active involvement with student government, campus clubs and committees, or off-campus leadership activities.</td>
</tr>
<tr>
<td>HDC 199</td>
<td>3</td>
<td>Independent Study: Student Success</td>
<td>Increase success in college through the application of techniques for problem-solving, planning, and accomplishing goals. Provides a supportive setting and format for monitoring personal accountability, motivation, and achievement. Students strengthen critical thinking and leadership skills. PREREQ: Permission.</td>
</tr>
<tr>
<td>HDC 200</td>
<td>1-3</td>
<td>Orientation to College Success</td>
<td>Provides international students with the knowledge and skills for success in American community colleges.</td>
</tr>
<tr>
<td>HDC 294</td>
<td>3</td>
<td>Individualized Career</td>
<td>Designed to help students develop goals by developing awareness of their own patterns of aptitudes, interests and personality traits. Career counseling session, writing assignments, career research and assessment help develop self-awareness through self-evaluation. Independent study with a counselor. PREREQ: Counselor’s signature.</td>
</tr>
</tbody>
</table>

**Humanities**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>HUM 104</td>
<td>5</td>
<td>Visual Thinking</td>
<td>Intro to thinking in images to release creativity; using the right brain in concert with the left brain; the focusing power of relaxed attention; idea sketching to generate, express and record ideas; use of new problem-solving strategies for problems defying usual solutions. PREREQ: Placement in ENGL 098 or higher.</td>
</tr>
<tr>
<td>HUM 110</td>
<td>5</td>
<td>Intro to American Film</td>
<td>Examines Hollywood film-making as an art form, a business and a shaper of culture. View, discuss and critically analyze classics, features and documentaries for increased understanding of artistic elements and film techniques. Covers the impact of American films on personal experience and American culture.</td>
</tr>
<tr>
<td>HUM 112</td>
<td>5</td>
<td>Responsibilities &amp; Rights of Freedom</td>
<td>Examines individual rights and responsibilities in a free society in the practical context of an individual’s roles as a citizen and resident of various levels of government, family member and employee or employer. Distinguishes between legally enforceable rights and obligations and the relationship between responsibilities and legal authority. Adds values to the critical thinking process.</td>
</tr>
</tbody>
</table>
HUM 116 (5)  
**Humanities I**  
Covers significant movements in Western culture and values through major works of art, drama, literature, philosophy, music, architecture and language. From historical and political writings, learn of the forces affecting the humanities, from the beginning of civilization to the fall of the Roman Empire.

HUM 117 (5)  
**Humanities II**  
Continuation of HUM 116. Covers the age of Charlemagne to the Enlightenment.

HUM 118 (5)  
**Humanities III**  
Continuation of HUM 117, from the French and American Revolutions to contemporary issues. Recommended: Placement in ENGL 101 or ENGL 101 (N).

HUM 120 (5)  
**Intro to Asian Cinema**  
Survey of cinema of Asian and Asian Pacific Islander countries, including but not limited to Japan, China, Hong Kong, Taiwan, Korea, Vietnam, Cambodia, Philippines, Samoa, India and Iran. Course satisfies API Emphasis AA requirement at South. Prereq: Placement in ENGL 101 or ENG 101 (N).

HUM 125 (5)  
**Hip-Hop Theory & Culture**  
Identifies and critically examines the theoretical foundations of hip-hop culture and rap music, the evolution of hip-hop philosophy and the community from which it originated. Analyzes the influences that the background, music and style of the hip-hop generation have upon a multicultural nation and world. Prereq: ENGL 101.

HUM 130 (5)  
**World Cinema**  
This course surveys 20th and 21st C. international films and filmmakers from around the globe. Analyzes how film themes are conveyed through narrative and style. Examines cinema as an art form that represents and influences social, political, and cultural movements worldwide. Prereq: ENGL 101 (N).

HUM 145 (5)  
**Film Genres**  
Study of a particular film genre through a theoretical lens to discover its historical and cultural roots, significance and context.

HUM 150 (5)  
**Ways of Knowing**  
Students study self-assessment or self-evaluation by writing and talking about their own education. Includes a study of learning styles and an exploration of individual learning styles.

HUM 155 (5)  
**Sports and Culture**  
Provides a forum for critical analysis with multiple perspectives of the cultural framework of sports and the sports world. Includes dynamics in sports related to social issues such as race, class, gender and oppression.

HUM 160 (5)  
**Asian Written Traditions**  
Intro to written traditions in philosophy, religion, history and literature of East and South Asia. Emphasis on original texts in translation in relation to social and cultural background. Recommended: ENGL 101 placement.

HUM 170 (5)  
**Intro to Futures Studies**  

HUM 197 (1-15)  
**Co-Op Work Humanities**  
Earn work experience credit in the humanities field. Prereq: Permission.

HUM 200 (5)  
**Reading the Media**  
Examines the way cultural identities are constructed by and represented in contemporary media such as film, television, radio and newspapers. Prereq: Placement into ENGL 101 (N).

HUM 210 (5)  
**Intro to LGBTQ Studies**  
Introduces key themes and critical frameworks in Lesbian, Gay, Bisexual, Transgendered, and Queer (LGBTQ) Studies. Topics include histories of sexuality; forms of oppression including heterosexism, homophobia, and transphobia; resistance to oppression; violence against LGBTQ people; queer activism; diverse experiences of sexuality; and representations in literature, art, and popular media. Prereq: Satisfactory Completion of ENGL 101.

HUM 270 (5)  
**Comics & Graphic Novels**  
Survey the history of comic books, manga and graphic novels. Study cartoonists’ works as channels of human expression and as evidence of changing and differing cultural conditions. Learn the basics of cartooning. Research self-chosen questions pertaining to “sequential art.”

HUM 289 (1-10)  
**Chinese Language through Experience**  
Self-paced experiential education for undergraduates who plan to take advantage of language study opportunities outside the USA, such as living with a family for total language immersion or attending a language school while studying the local culture. All course requirements must be completed upon return to the USA.

HUM 290 (1-10)  
**German Language through Experience**  
See course description listed for HUM 289.

HUM 291 (1-10)  
**Spanish Language through Experience**  
See course description listed for HUM 289.

HUM 292 (1-10)  
**French Language through Experience**  
See course description listed for HUM 289.

HUM 293 (1-10)  
**Italian Language through Experience**  
See course description listed for HUM 289.

HUM 294 (1-5)  
**Independent Projects**  
Independent projects based on humanities research. Prereq: Permission.

HUM 295 (1-5)  
**Practicum in the Humanities**  
Curriculum practicum for teachers. Prereq: Permission.
Course Descriptions

**HUM 296 (1-5)**
Independent Projects
Continuation of HUM 295 or independent curriculum project on a different topic than that studied in HUM 295. Prereq: Permission.

**HUM 297 (1-10)**
Japanese Language through Experience
A self paced experiential education course designed for the undergraduate who plans on taking advantage of the language enhancement opportunities outside the USA, living with a family for total language immersion or attending a language school while at the same time studying the culture of the country.

**HUM 298 (1-10)**
Portuguese Language through Experience
See course description listed for HUM 289.

**HUM 299 (1-5)**
Special Problems in Humanities
An independent study/research course in the interdisciplinary field of humanities. Prereq: Permission.

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**Information Research**

**INFO 101 (1-5)**
Information Resources
Develops critical thinking in the research process. Examine strategies for locating and using information resources. Emphasizes proficiency using electronic resources and other research tools and retrieval techniques. Explores information policy issues such as copyright, censorship and freedom of information. Prereq: Eligible for ENGL& 101.

**INFO 102 (1)**
Info in Action Research
Covers the process to get started with a research project and gain a solid understanding of research options. Prereq: Eligible for ENGL& 101.

**INFO 103 (1)**
Info in Action Books Media
Intro to the purpose, structure, and uses of books, ebooks and media as sources of in-depth or historical information on a subject. Covers use of local and regional library catalogs to find books, and strategies to evaluate them. Prereq: Eligible for ENGL& 101.

**INFO 104 (1)**
Info in Action Research
Explores periodical databases for research purposes, including basic database structure and the variety of databases available. Focuses on research strategies and database features to retrieve and evaluate articles on a topic. Prereq: Eligible for ENGL& 101.

**INFO 105 (1)**
Info in Action Scholarly
Intro to scholarly communications that form the basis of new information, including where these communications are published, how to search periodicals databases for scholarly articles, and how to evaluate and cite sources for academic research. Prereq: Eligible for ENGL& 101.

**INFO 106 (1)**
Info in Action Web Research
Examines the Internet as a conduit for research information from a wide range of sources. Discover strategies for uncovering difficult to find -deep web- resources and evaluating content from multiple sources. Prereq: Eligible for ENGL& 101.

**INFO 110 (1-3)**
Information Age Issues
Develops strategies to locate, evaluate and use information safely and ethically. Includes extra language support for non-native English speakers. Prereq: Eligible for ENGL& 101.

**INFO 115 (1)**
Research for 21st Century
Develops a framework for research in the online environment and helps build skills and techniques for success as online learners through a quarter-long research project on global issues. Prereq: Eligibility for English 101.

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**Information Technology**

Also see Computer Science, Computing Technology.

**NOTE: Eligibility for ENGL& 101 is recommended.**

Most Information Technology courses require a computer lab fee. Contact the division office for specific fee information.

**ITC 110 (5)**
Programming Fundamentals
Intro to basic computing concepts such as Input/Processing/Output, control structures, arrays, structured programming and object oriented programming using C#.NET as an example language. Prereq: BTM 111 or equivalent and eligible for MATH 098.

**ITC 115 (5)**
Object Oriented Programming
Intro to object oriented programming, structures and concepts with Java. Intro to the C++ language Create objects and understand how they relate to classes. Develop C++ code for practical applications. Prereq: ITC 110 with 2.0 or higher.

**ITC 134 (5)**
Computer Operating System
Intro to concepts of processes, file systems and structures, software and hardware management, security and user authentication, resource allocation and memory management. Uses WINDOWS, DOS and LINUX operating systems. Prereq: BTM 111; ITC 140 with 2.0 or higher as prereq or coreq or permission.

**ITC 136 (5)**
UNIX Operating System
Intro to the Linux/UNIX client operating system, including the fundamental Linux/UNIX commands in both the command line interface and graphics user interface. Not a Server Administration class. Prereq: BTM 111 with 2.0 or better, or previous computer work, or permission.

**ITC 140 (5)**
Intro to Computer Hardware
Provides basic understanding of various hardware components, including installation and configuration. Learn how software interacts with and controls the computer's hardware elements. Emphasizes analytical logic, troubleshooting skills and basic networking concepts. Prereq: BTM 111 or ITC 102 or equivalent.

**ITC 151 (5)**
Intro Network Security
Intro to network security, building and administering secure network architectures. Covers firewalls, vulnerability scanners, encryption, risk monitoring and assessment tools, digital certificates, authentication and network vulnerabilities. Security Lab uses wired desktop systems and wireless PDAs to Linux, Macintosh and Windows systems used by small and medium businesses. Prereq: NET 120 with 2.0 or higher or permission.
Course Descriptions

ITC 162 (5)  
**Intro to Mobile Development**  
Covers advanced Object Programming concepts and their application in a mobile environment. Includes OOP inheritance, interfaces, when to refactor, and good design principles. Learn how to design for large projects and to work in teams. Create a simple mobile application. Prereq: ITC 115 with a 2.0 or higher.

ITC 172 (5)  
**NET Web Programming**  
Intro to object-oriented, event-driven programming using Visual Basic (VB) in the Visual Studio.NET environment. Create Windows applications and write Windows interfaces to existing applications. Study of Visual Basic forms and tools and writing VB code modules, processing and functions. Intro to web applications. Prereq: ITC 110 or MIC 110.

ITC 210 (5)  
**Advanced Web Development**  
Provides hands-on experience working on a web team with real-world client projects. Offered with WEB 210. ITC 210 students provide the main database programming skills while WEB 210 students provide the main design and development skills. Prereq: WEB 170 with 2.0 or higher.

ITC 220 (5)  
**Database Development**  
Overview of database theory and systems. Work with relational databases, simple ADO, SQL and XML. Prereq: BTM 111 and either MIC 110 or permission.

ITC 222 (5)  
**SQL**  
Intro to the use of Structured Query language (SQL) to access and summarize database information, create and alter database objects, set constraints and create views. Intro to SQL embedded in programming environments such as ASP or CGI, or Net. Learn to use SQL to create and manage databases on a relational database management system. Prereq: ITC 220 or permission.

ITC 224 (5)  
**Designing Database Solutions**  

ITC 226 (5)  
**Database Administration**  
Provides practice with administrative activities, security and backup on a Relational Database Management System, using Administrative SQL and other tools offered by the Relational Database Management System. Prereq: ITC 222.

ITC 240 (5)  
**Web Applications 1**  
Covers the fundamentals of programming using a server side scripting language such as PHP Learn basic programming skills such as Variables, Control Structures, and Arrays, how to elegantly incorporate their scripts into their websites and gather data from HTML forms.

ITC 250 (5)  
**Web Applications 2**  
Covers more advanced server-side scripting. Learn how to collect data from forms and to store and retrieve data from a database. Emphasizes proper coding conventions, security, and code organization. Prereq: ITC 240 with 2.0 or higher or permission.

ITC 255 (5)  
**Systems Analysis**  
Identify when a system needs to be upgraded or replaced. Analyze system components and requirements, charting process flow and data structures, determining feasibilities and providing alternate solutions. Prereq: BTM 111 with 2.0 or higher or SAM Challenge test out Recommended: ITC 110 or CSC 110.

ITC 260 (5)  
**Web Applications 3**  
Builds on ITC 250. Covers more advanced server-side scripting. Intro to object oriented programming principles, more advanced database interaction and popular frameworks. Prereq: ITC 250 with 2.0 or higher or permission.

ITC 285 (5)  
**Capstone Project Class**  
Produce a major project that responds to a client problem or request. Work in teams or carry out an individual project as an intern/extern. Select and work closely with industry mentors. Emphasis on research, accuracy, technology skills, timeliness, teamwork, quality, client/customer satisfaction and usability. Prereq: Completion of first year of A.A.S.-T. degree.

ITC 298 (1-5)  
**Special Topics**  
In-depth studies in new and emerging technologies relevant to the IT programs. Prereq: Permission.

MIC 101 (4)  
**Intro to Micro Comp Applications**  
Intro to microcomputer applications for Windows. Includes an overview of Windows, the Microsoft Office System featuring Word, Excel, Access, PowerPoint, Internet Browsers, email, along with emerging software applications topics and concepts.

MIC 175 (4)  
**Computer User Support**  
Designed to introduce students to the fundamentals of help desk operations. Emphasizes the basic components of a successful help desk, provide students with working knowledge of software to process and track calls, and present hands-on experience with problem analysis.

**Information Technology Web/Information Technology**

WEB 105 (3)  
**Working on a Web Project**  
Overview of different web-related careers including web team job descriptions, functions, workflow, processes, and overall project management.

WEB 110 (4)  
**Web Authoring I**  
Covers the mechanics of web page production starting with absolute basics. Covers document structure, text elements, list elements, links, tables and working with images and creating framesets. Focuses on creating HTML/XHTML files -by hand- with emphasis on browser compatibility issues and HTML/XHTML validation. Prereq: BTM 111 or computer experience.

WEB 112 (3)  
**Typography**  
Intro to the elements of typography as applied to the Web. Prereq: WEB 110 or concurrent enrollment.

WEB 114 (3)  
**Photoshop for the Web**  
Gain insight and skill with Adobe Photoshop. Covers the basic concepts of pixel-based image editing and making graphics for the web. Prereq: WEB 110 or concurrent enrollment.
WEB 120 (4)
Web Authoring II
Covers more advanced elements of web page development and production. Includes style sheets, designing and coding "off" forms, XHTML and an intro to XML. Code elements by hand and create content compatible with all major browsers. Prereq: WEB 110 or permission.

WEB 130 (3)
Web Authoring III
This course follows WEB 120, building on students’ existing knowledge of HTML and Cascading Style Sheets (CSS). Students learn more advanced styles, including animation. Additionally, students learn how to effectively create a website that utilizes both client-side and server-side scripting in conjunction with their HTML markup. Students will create a final project to include in their portfolio. PREREQ: WEB 120 and WEB 150 with 2.0 or higher.

WEB 150 (4)
Intro to Javascript
Studies programming concepts and techniques affecting web page design. Examines theoretical concepts that make the world of JavaScript programming unique. Uses a hands-on approach when examining programming styles. Examines different coding, the advancement of programming and problem-solving strategies. Prereq: WEB 110 or permission.

WEB 160 (2)
Writing for the Web
Covers techniques for writing successful copy for a website.

WEB 170 (4)
Content Management System
Course introduces students to Content Management Systems (CMS). Students learn to install a CMS on their server; customize its look and feel; add pages, posts, images, and videos. Students will create a final project to include in their portfolio. Prereq: WEB 120 with 2.0 or higher, ITC 240 with a 2.0 or higher, or concurrent enrollment.

WEB 200 (4)
Theory of Web Design
Covers principles and practices of professional web site design, including site structure, page layout, navigation, color theory, typography and best coding practices. Prereq: WEB 110 with 2.0 or higher. Coreq: WEB 120.

WEB 202 (4)
User Centered Web Design
Overview and detailed look at how the user experience dictates the design, functionality, features and content of a website, and how to successfully achieve the client’s business goals. Prereq: WEB 120 and 200 with 2.0 or higher.

WEB 205 (2)
Web Career Strategies
Presents various tools and skills needed to transition into the web industry. Learn about web careers, presenting skills, finding appropriate positions and creating a portfolio. Prereq: WEB 120 with 2.0 or higher and ITC 200. Coreq: WEB 210 or permission.

WEB 210 (5)
Advanced Web Design
Design and produce an effective web site for a live client with advanced web design techniques while practicing a team workflow process. Prereq: WEB 120 and 200 with 2.0 or higher.

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Institutional Training Development

ITD 105 (0)
Computer Training
Contractual course training students in computer basics including MS Word, spreadsheets, MS Excel, and the Internet.

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International Studies

ISP 101 (5)
The Global Society
Intro to the globalization of cultures and societies in producing the current world system. Includes human interaction, social institutions, social stratification, socialization, deviance, social control, social and cultural change within the context of international inequality.

ISP 201 (5)
Making of 21st Century
Studies international political economy through facets/events of post-World War II era. Covers postwar changes leading to the creation of international financial institutions, rise of MNCs, emergence of the United States as a major power, globalization of production debt crisis and structural adjustment policies. Emphasis on Asian Pacific, South Asian, Sub-Saharan African and Latin American countries.
American Sign Language

ASL 120 (5) American Deaf Culture
Overview of the treatment and psychological aspects of Deafness; history and education of Deaf people; and Deaf culture.

ASL& 121 (5) American Sign Language I
Introduction to American Sign Language (ASL), the visual language created by Deaf people. Study of the basic vocabulary, grammar, functions of the language; introduction to the culture of the Deaf community. At Central, fulfills one of the distribution requirements for the Associate of Arts with Emphasis in Deaf Studies. PREREQ: Eligibility for English 101.

ASL& 122 (5) American Sign Language II
Continuation of ASL& 121. The focus of the course is to develop ASL grammar skills, increase vocabulary, and continue to gain a deeper knowledge and appreciation of Deaf culture. At Central, may be used as an elective to fulfill requirements for the Associate of Arts with Emphasis in Deaf Studies. PREREQ: Eligibility for English 101, Successful completion of ASL& 121 with a grade of 2.0 or higher.

ASL& 123 (5) American Sign Language III
Continuation of ASL 122 with focus on certain grammatical features such as spatialization, verb aspect and inflection, with non-manual components. Intensive work in vocabulary development, and continued study of Deaf culture. At Central, may be used as an elective to fulfill requirements for the Associate of Arts with Emphasis in Deaf Studies. PREREQ: Eligibility for English 101, Successful completion of ASL& 122 with a grade of 2.0 or higher.

ASL 125 (5) American Deaf Culture
Covers discussion of Deaf people as a culture, a group of people held together by strength of culture rather than disability. Examines Deaf minorities and current issues in the field.

ASL 132 (4) Fingerspelling & Numbers
Emphasis on receptive and expressive fingerspelling and number use within a range of contexts. Learn strategies for maintaining uninterrupted language flow. Prereq: ASL& 223 or ITP 165 with 2.5 or higher permission.

ASL& 221 (5) American Sign Language IV
Emphasis on expressive skills development and ASL fluency. Attention to the correct formation of signs, movement, rhythm, phrasing, linking, and clarity, intensive vocabulary building and proficiency in ASL grammar. Prereq: ASL& 123 with a 2.0 or higher permission.

ASL& 222 (5) American Sign Language V
Continued development of receptive and expressive skills. Produce/receive narratives at a near-native level and decrease dependency on English syntax structures. Prereq: ASL& 221 with a 2.0 or higher permission.

ASL& 223 (5) American Sign Language VI
Continued vocabulary development and participate in most formal and informal conversations on general topics. At this level signing errors seldom interfere with understanding and rarely disturb native signers. Prereq: ASL& 222 with a 2.0 or higher permission.

ASL 299 (1-10) Independent Study: ASL
Independent study of selected topic(s) in ASL. A mutually desirable research project is assigned by the faculty.

SPS 201 (5) Introduction to Audiology
Understand the process of hearing, interruptions in the normal hearing process, remediations options. Learn issues of the deaf community within the larger population of hearing-impaired individuals.

Arabic

ARAB 101 (5) Arabic I
Modern Standard Arabic (MSA) language within the cultural context of Arabic-speaking people. Provides students with elementary Arabic communication skills of listening, speaking, reading, and writing. No prior knowledge of Arabic required. Prereq: English 101 eligibility.

ARAB 102 (5) Arabic II
Continuation of 101. Emphasizes speaking skills on topics such as Arabic names and titles, family and friends, daily life activities, and cultural topics. Begin learning written language and grammar. Prereq: ARAB 101 or permission.

ARAB 103 (5) Arabic III
This course begins with a review of the material taught in Arabic II. Arabic III continues with a comprehensive and complex focus on Arabic speaking, reading, and writing skills. Students will be able to relay personal experiences using complex grammar and will gain a thorough understanding of Arabic culture.

Chinese

CHIN& 121 (5) Chinese I
Intro to the standard language, emphasizing correct pronunciation and basic structure, with oral practice and structure skills. Emphasis on systematic study of the phonetics (Pinyin) and basic grammar. Covers everyday expressions and vocabulary, and background on history, culture and customs. Intended for students who have not previously studied Chinese. Recommended: Eligibility for ENGL& 101 (C).

CHIN& 122 (5) Chinese II
Continuation of CHIN& 121. Prereq: CHIN& 121 or permission.

CHIN& 123 (5) Chinese III
Continuation of CHIN& 122. Prereq: CHIN& 122 or permission.

CHIN& 221 (5) Chinese IV
Continuation of CHIN& 123. Emphasizes using Chinese language in speaking, listening, reading, writing and translation. Prereq: CHIN& 123 or permission.
**CHIN& 222 (5)**  
Chinese V  
Continuation of CHIN& 221. Studies similarities and differences between Chinese and English. Prereq: CHIN& 221 or permission.

**CHIN& 223 (5)**  
Chinese VI  
Continuation of CHIN& 222. Use of Chinese in varied social settings. Includes writing academic papers and researching in Chinese. Prereq: CHIN& 222 or permission.

**English**

**ENGL 097 (10)**  
Integrated Reading and Writing I  
Provides opportunities to develop reading, writing, and critical thinking skills needed to write in academic settings. Includes reading and writing processes, critical thinking strategies, study skills, and grammar. Emphasizes application of course content toward understanding a variety of academic and career-related texts and composing unified and coherent sentences, paragraphs, and short essays. Prereq.: Placement.

**ENGL 098 (10)**  
Integrated Reading and Writing II  
This course provides students with opportunities to further develop the reading, writing, and critical thinking skills needed to write in academic settings. Topics include reading and writing processes, critical thinking strategies, study skills, and grammar instruction. Upon completion, students should be able to apply these skills toward understanding a variety of academic and career-related texts and composing a college-level essay. Prereq: Placement Test or Appropriate Prerequisite.

**ENGL 099 (5)**  
Supporting College Writing  
This course is intended for students who are ENGL 098 ready who wish to move directly into ENGL 101. Any students who choose to bypass English 098 must enroll in a hard-linked English 099 and ENGL 101. The primary focus of this course is to provide students with more in-depth opportunities to acquire the reading, writing, and critical thinking skills needed to write at the career and college ready level.

**ENGL 101 (5)**  
English Composition  
English 101 is a college-level writing course that emphasizes academic writing and major strategies of reading and writing analytically. Writing assignments focus on engaging with and responding to a variety of texts. Instructs encourages students to develop, through revision and reflection, as readers, writers, and critical thinkers. PREREQ: Placement into ENGL 101.

**ENGL 102 (5)**  
Composition II  
Continuation of the composition sequence with further instruction and practice in the writing process, concentrating on critical reading and writing techniques needed for the preparation and completion of documented essays. Prereq: ENGL 101.

**ENGL 104 (5)**  
Advanced English Grammar  
Study of rhetoric and grammar of the English sentence. Includes sentence structure, grammar of the paragraph, usage, diction and mechanics. This course is not remedial. Prereq: Eligible for ENGL 101 or permission.

**ENGL 105 (3)**  
Applied Composition  
Covers skills and strategies needed to meet writing demands in college and on the job. Prereq: Satisfactory performance on English placement test.

**ENGL 106 (3)**  
Technical Writing  
Writing strategies geared to target audiences. Emphasis on research and problem-solving requiring critical reading and writing; development of ideas and argumentation. Includes layout and design, use of illustration, schematics and mathematics. Prereq: ENGL 105 or permission.

**ENGL 111 (5)**  
Intro to Literature  
Study and analysis of fiction, poetry and drama with emphasis on understanding the art and techniques of each genre. Prereq: Placement into ENGL 101.

**ENGL 112 (5)**  
Intro to Fiction  

**ENGL 113 (5)**  
Intro to Poetry  
Study, appreciation and analysis of the form, meaning, music and metaphor of poetry. Includes poems from diverse sources. Prereq: Placement into ENGL 101.

**ENGL 114 (5)**  
Intro to Drama  
Study and analysis of great works of the theater, including major themes and trends of playwrights from the Greeks to the present. Prereq: Placement into ENGL 101.

**ENGL 115 (5)**  
LGBT Literature  
Surveys lesbian, gay, bisexual, and transgender literature. Explores ideas, themes, historical contexts, and social issues in fiction, poetry, drama, creative non-fiction, and essays. Prereq: Placement into ENGL 101.

**ENGL 117 (5)**  
American Dialects  
Survey of the contributions other languages and dialects have made to American English, its make-up and creative communicative dynamics.

**ENGL 120 (5)**  
Digital Literature  
Exploration of digital literature and authors who use digital media to present their work. Overview of history of digital literature and emerging digital literary forms such as hyper-text, interactive fiction, blogs, social media, apps, video games, and multimedia formats. No specialized software knowledge required. Access to computer and internet recommended. Prereq: Placement into ENGL 101.

**ENGL 125 (5)**  
Writing About Science  
Explore and create works of non-fiction literature about the Physical, Earth, and Life Sciences, technology, the environment and related themes, contexts, and issues. Exploration of the role of science and science writing in public discourse, policy, debate, news reporting, and a variety of media presentation formats. No specialized science knowledge required. Prereq: ENGL 101 Placement.

**ENGL 130 (5)**  
Literature and the City  
Introduction to fiction, non-fiction, poetry, and drama that illustrate life in American cities and issues such as race, politics, gender, class, family, education, and media. Prereq: ENGL 101 Placement.
ENGL 135 (5) The Spoken Word
Survey of the study, writing, and performance of spoken word poetry and prose. Exploration of texts and performances and how multicultural spoken word writers and performers depict social issues, current events, and personal experience. Students enrolled in the course will create and perform their own spoken word poetry and prose. Prereq: ENGL& 101 Placement.

ENGL 140 (5) Pacific Northwest Literature
Exploration of ideas, themes, historical contexts, and social issues relevant to the Pacific Northwest region in fiction, poetry, drama, creative non-fiction, and essays. Prereq: Placement into ENGL 101.

ENGL 151 (5) Creative Writing
Creative writing with focus on development of language, imagery, style, voice and emphasis on techniques. Prereq: ENGL& 101 or permission.

ENGL 152 (5) Creative Writing
Continuation of ENGL 151. Prereq: ENGL 151, ENGL& 101 or permission.

ENGL 153 (1-5) Creative Writing
Continuation of ENGL 152. Emphasis on writing, editing and proofreading manuscripts. Includes literary magazine production experience in editing, design and layout. Includes workshops and seminars for those with writing experience. Prereq: ENGL& 101, ENGL 151 and ENGL 152 or permission (N) (C).

ENGL 160 (5) Introduction to Writing for Media
Introduction to writing for digital and online media including social media, digital journalism, blogs, video games, web sites, mobile apps, and emerging new media formats. Emphasis on developing writing skills for presentation in digital media formats through examination of course readings and creation of digital media projects. No previous software knowledge required. Internet access recommended. Prereq: ENGL& 101 Placement.

ENGL 161 (5) Writing for Media: News Writing & Reporting
Introduction to online news reporting and writing. Emphasis on basic story structure models, information gathering, interviewing, source development, specialized reporting skills, audience awareness, media ethics and laws. Introduction to online news story enhancement tools and platforms: video, audio, photography, interactive graphics, maps, live streaming, blogs, social media, apps. Prereq: ENGL& 101 or ENGL 160 or instructor permission.

ENGL 162 (5) Writing for Media: Multimedia News Writing
News reporting and writing enhanced by multimedia digital tools for online publication. Overview of source gathering and news reporting using digital formats and platforms such as live streaming, blogs, news web sites, social media, mobile devices and apps. Prereq: ENGL 161 or instructor permission.

ENGL 204 (5) English Language & Linguistics
Overview of the fundamental structures of English from the perspective of linguistic studies. Emphasis on the basic principles and tools of the field of linguistics, contemporary theories of morphology, syntax (grammar), semantics, and study of historical, geographical, and socioeconomic variations of the English language. Prereq: ENGL 101.

ENGL 205 (5) Creative Nonfiction
Designed to familiarize students with the techniques and narrative structures of creative nonfiction. Reading and writing will focus on personal essays and memoir, but may also cover related sub-genres such as science writing, travel writing, and profiles/biography. Prereq: ENGL& 101.

ENGL 214 (5) Major British Authors
Covers 1920 to the present. Read a wide variety of authors and genres with attention to the multi-cultural forces that shape British literature today. Study the historical and social forces surrounding the literature for context. Prereq: Eligible for ENGL 101.

ENGL 218 (5) Holocaust Literature
Examines literature written by survivors of the Holocaust or the Shoah. Read accounts written by people who survived to write and publish their memories. Meet one of the authors. Develop an historical context for World War II and the rise of Nazi Germany to understand the literature.

ENGL 224 (5) Shakespeare I
Study of a representative selection of Shakespeare's comedies, tragedies, romances, and history. Covers the range of Shakespeare's career (without duplication of materials from ENGL 225). May take one or both classes. Prereq: ENGL 101 Placement.

ENGL 225 (5) Shakespeare 2
Study of a representative selection of Shakespeare's comedies, tragedies, romances, and history. Covers the range of Shakespeare's career. Continuation of ENGL 224. May take one or both classes. Prereq: ENGL 101 Placement.

ENGL 226 (5) British Literature I
The early Celtic period, the Roman occupation, the Anglo Saxon period, the Norse invasions, the Middle Ages to the English Renaissance before Shakespeare. Emphasizes the historical forces, social shifts and significant cultural clashes that form the context for this literature. Prereq: Eligible for ENGL 101 (N,C).

ENGL 227 (5) British Literature II
From 1540–1800. Covers Shakespeare and the English Reformation and Renaissance, English global expansion, growing awareness of science and The Age of Reason. Emphasizes the historical forces, social shifts and cultural differences that form the context for this literature. Prereq: Eligible for ENGL 101.

ENGL 228 (5) British Literature III
Covers the French Revolution through the Romantic and Victorian periods through World War I (1785-1919). Emphasizes the historical forces, social shifts and cultural differences that form the context for this literature. Prereq: Eligible for ENGL 101.

ENGL 230 (3) Technical Writing
Presents formats and mechanics of writing needed in occupational areas related to engineering technologies. Emphasis on project types, layout and design, use of illustrations, schematics and mathematics, writing for specific audiences, research and documentation, and résumé writing. Prereq: ENGL 101.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 231</td>
<td>1-5</td>
<td>Children’s Literature</td>
<td>Explores a representative collection of children’s and young adult literature from multiple cultures within the Western literary tradition. Includes close reading of texts such as fairy tales, traditional tales, illustrations, picture books, realistic and historical fiction, and fantasy. Emphasizes historical context, literary themes, cultural implications for reading audiences, and the role of children’s narratives in the social construction of childhood. Recommended: Completion of ENGL&amp; 101 (N,C).</td>
</tr>
<tr>
<td>ENGL 232</td>
<td>5</td>
<td>Young Adult Literature</td>
<td>Exploration of young adult literature that represents culturally diverse populations within the United States with emphasis on values reflected and the power and elements of story. Prereq: Placement into ENGL&amp; 101.</td>
</tr>
<tr>
<td>ENGL 240</td>
<td>5</td>
<td>Read/Write Autobiography</td>
<td>Read autobiographies of well-known people and write your own. Involves both critical and personal writing assignments, with an emphasis on the personal dimension of writing. Prereq: ENGL&amp; 101 Placement.</td>
</tr>
<tr>
<td>ENGL &amp; 245</td>
<td>5</td>
<td>American Literature II</td>
<td>Covers 19th century writers in all written forms. Prereq: Eligible for ENGL&amp; 101.</td>
</tr>
<tr>
<td>ENGL 246</td>
<td>5</td>
<td>American Literature III</td>
<td>Covers late 19th and 20th century writers with emphasis on modern fiction, drama, poetry and trends in literature. Practice critical techniques. Prereq: Eligible for ENGL&amp; 101.</td>
</tr>
<tr>
<td>ENGL 251</td>
<td>5</td>
<td>Studies in the Novel</td>
<td>Studies major novels associated with specific philosophical or chronological periods, such as the great Victorian novelists, the Naturalists and American Realists. Usually covers 5 novels per quarter. Prereq: Eligible for ENGL&amp; 101 (N).</td>
</tr>
<tr>
<td>ENGL 252</td>
<td>5</td>
<td>Novels of Western Literature</td>
<td>Emphasis on European and American novels from the past two centuries viewed in the philosophical and historical contexts. Prereq: ENGL&amp; 101 Placement.</td>
</tr>
<tr>
<td>ENGL &amp; 254</td>
<td>5</td>
<td>World Literature I</td>
<td>Critical readings and discussion of the creation stories and early literature of several ancient cultures, examining the material as myth, as history, as literature and as records of a culture’s self-image. Prereq: Placement into ENGL&amp; 101.</td>
</tr>
<tr>
<td>ENGL 256</td>
<td>5</td>
<td>World Literature III</td>
<td>Cross-cultural survey of contemporary world literature from Latin America, Africa, Asia, the Middle East, Europe and the United States from the 20th Century to the present. Prereq: Placement into ENGL&amp; 101.</td>
</tr>
<tr>
<td>ENGL 257</td>
<td>5</td>
<td>Literary Masterpieces of the United States</td>
<td>Illustrates the richness and variety of writing and represents enduring concerns and questions of American literature through selected works. Prereq: ENGL&amp; 101 Placement.</td>
</tr>
<tr>
<td>ENGL 258</td>
<td>5</td>
<td>Literature of American Culture</td>
<td>Survey of literature from a variety of U.S. cultures including Asian American, African American, European American, Chicano and Latino American, Middle Eastern American, Native American, and others. Emphasis on analysis of social, cultural, political, and historical contexts. Prereq: Placement into ENGL&amp; 101.</td>
</tr>
<tr>
<td>ENGL 259</td>
<td>5</td>
<td>African American Literature</td>
<td>Survey of African American literature (fiction, poetry, drama, essays) from the 19th Century to the present. Prereq: Placement into ENGL&amp; 101.</td>
</tr>
<tr>
<td>ENGL 263</td>
<td>5</td>
<td>The Bible as Literature</td>
<td>Studies the Bible as an anthology of literary texts expressing the religious ideas of ancient Israel. Emphasizes reading the Old Testament and New Testament with literary and historical understanding. Prereq: Eligible for ENGL&amp; 101.</td>
</tr>
<tr>
<td>ENGL 265</td>
<td>5</td>
<td>Literature &amp; Society</td>
<td>Studies patterns of literary expression as a guide to social attitudes and value systems, the part society plays in shaping literature and the degree to which literature reflects society. Prereq: Placement into ENGL&amp; 101.</td>
</tr>
<tr>
<td>ENGL 270</td>
<td>5</td>
<td>Beat Generation Writers</td>
<td>Focus on the literature of the Beat Generation writers in the U.S. in the 1940s, such as Jack Kerouac, Allen Ginsberg and William Burroughs, who continue to have an influence on American society today. Prereq: Eligible for ENGL&amp; 101.</td>
</tr>
<tr>
<td>ENGL 291</td>
<td>5</td>
<td>Literature by Women</td>
<td>Surveys literature by culturally diverse American women authors. Analyzes fiction and non-fiction texts of various genres. Examines the ways in which women’s literary voices have shaped society, culture, politics, and gender roles in the United States. Prereq: ENGL&amp; 101 Placement.</td>
</tr>
<tr>
<td>ENGL 292</td>
<td>5</td>
<td>Literature by Women: Global Perspectives</td>
<td>Survey of literature by women from African, Asian, Latin American, Middle Eastern, European and other cultures. Prereq: Placement into ENGL&amp; 101.</td>
</tr>
<tr>
<td>ENGL 293</td>
<td>5</td>
<td>Science Fiction</td>
<td>Examines selected readings in science fiction and fantasy from the 19th century to present. May include American, British, continental European and other international writers. Prereq: Placement into ENGL&amp; 101.</td>
</tr>
<tr>
<td>ENGL 296</td>
<td>1-3</td>
<td>Special Topics English</td>
<td>Special courses developed by instructors. Prereq: permission.</td>
</tr>
<tr>
<td>ENGL 298</td>
<td>5</td>
<td>Special Topics</td>
<td>In-depth examination of current and emerging topics and themes relevant to the study of English. Consult Humanities &amp; Social Sciences Division and quarterly class schedule for the specific topic to be offered. Prereq: Placement into ENGL&amp; 101.</td>
</tr>
</tbody>
</table>
### Finding Courses

Course names and course prefixes are cross-referenced in an index beginning on page 3. For example:

**Prefix to Name**

<table>
<thead>
<tr>
<th>HIN</th>
<th>Watch Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAME TO PREFIX</td>
<td></td>
</tr>
</tbody>
</table>

Common Course Numbering explanation is on page 2.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 299</td>
<td>(1-5)</td>
</tr>
<tr>
<td><strong>Independent Study</strong></td>
<td></td>
</tr>
<tr>
<td>Create an individual project, syllabus and outcomes with instructor. Prereq: Permission.</td>
<td></td>
</tr>
</tbody>
</table>

### English as a Second Language

**ESL 007 (1-15)**

**ESL – Pre-Literacy**

For true beginners—students who are unable to read, write, speak or listen in English and who are pre-or-non-literate in their native language. Introduces beginning concepts of reading and writing and spoken English for aural comprehension to help students use English for meeting classroom and personal needs.

**ESL 010 (1-15)**

**ESL – Level 1**

Emphasis on basic vocabulary, simple sentence structure, pronunciation, basic reading and writing needed for daily functioning. Concentrates on developing oral and listening skills through drills, dialogues, role-playing, dictation and conversation. Work on literacy skills.

**ESL 011 (1-12)**

**ESL – Level 1a**

Beginning course for non-native speakers of English with emphasis on vocabulary, pronunciation, basic reading and writing needed to meet daily survival situations.

**ESL 012 (1-12)**

**ESL – Level 1b**

Beginning course for non-native speakers of English with emphasis on vocabulary, pronunciation, basic reading and writing needed to meet daily survival situations. Prereq: ESL 011 or placement.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ESL 013</td>
<td>(1-15)</td>
</tr>
<tr>
<td><strong>ESL – Level 1c</strong></td>
<td></td>
</tr>
<tr>
<td>Beginning course for non-native speakers of English with emphasis on vocabulary, pronunciation, basic reading and writing needed to meet daily survival situations. Prereq: ESL 012 or placement.</td>
<td></td>
</tr>
<tr>
<td>ESL 015</td>
<td>(1-15)</td>
</tr>
<tr>
<td><strong>Basic Literacy Level 1</strong></td>
<td></td>
</tr>
<tr>
<td>Practice in reading and writing skills needed for daily situations and jobs. Emphasis on basic vocabulary, simple sentences, and pronunciation.</td>
<td></td>
</tr>
<tr>
<td>ESL 016</td>
<td>(1-12)</td>
</tr>
<tr>
<td><strong>ESL-Speaking/Listening 1</strong></td>
<td></td>
</tr>
<tr>
<td>Practice in speaking and listening skills needed for job and/or daily situations. Prereq: Placement into ESL 011 or 012.</td>
<td></td>
</tr>
<tr>
<td>ESL 017</td>
<td>(1-15)</td>
</tr>
<tr>
<td><strong>Computer Assisted ESL 1</strong></td>
<td></td>
</tr>
<tr>
<td>Tutoring in specific areas for students in ESL Level 1. Prereq: Permission.</td>
<td></td>
</tr>
<tr>
<td>ESL 018</td>
<td>(1-15)</td>
</tr>
<tr>
<td><strong>Workplace ESL Level 1</strong></td>
<td></td>
</tr>
<tr>
<td>Beginning level for non-native speakers of English. Practice with job-related skills in reading, writing, speaking and listening.</td>
<td></td>
</tr>
<tr>
<td>ESL 019</td>
<td>(1-15)</td>
</tr>
<tr>
<td><strong>Vocational ESL Level 1</strong></td>
<td></td>
</tr>
<tr>
<td>Designed to help prepare limited English-proficient students for entry into specific job training programs such as electronic assembly, culinary arts and wood construction. Focuses on the basic vocabulary and communication structures required in the job training class and on the job.</td>
<td></td>
</tr>
<tr>
<td>ESL 020</td>
<td>(1-12)</td>
</tr>
<tr>
<td><strong>ESL – Level 2</strong></td>
<td></td>
</tr>
<tr>
<td>Practice in listening skills, understanding idiomatic expressions and producing appropriate responses in contextual situations. Continued emphasis on basic vocabulary, reading and writing. Prereq: ESL 010, ESL 012 (N), or placement.</td>
<td></td>
</tr>
<tr>
<td>ESL 021</td>
<td>(1-15)</td>
</tr>
<tr>
<td><strong>ESL – Level 2a</strong></td>
<td></td>
</tr>
<tr>
<td>Beginning-level course for non-native speakers of English. Continued emphasis on vocabulary development, reading and writing needed to function effectively in a job or daily situations. Prereq: ESL 010, 012, or placement (N); ESL 013 or placement (S,C).</td>
<td></td>
</tr>
<tr>
<td>ESL 022</td>
<td>(1-15)</td>
</tr>
<tr>
<td><strong>ESL – Level 2b</strong></td>
<td></td>
</tr>
<tr>
<td>Beginning-level course for non-native speakers of English. Continued emphasis on vocabulary development, reading and writing needed to function effectively in a job or daily situations. Prereq: ESL 021 or placement.</td>
<td></td>
</tr>
<tr>
<td>ESL 023</td>
<td>(1-15)</td>
</tr>
<tr>
<td><strong>ESL – Level 2c</strong></td>
<td></td>
</tr>
<tr>
<td>Intermediate-level course for non-native speakers of English. Continued emphasis on vocabulary development, reading and writing needed to function effectively in a job or daily situations. Prereq: ESL 022 or placement.</td>
<td></td>
</tr>
<tr>
<td>ESL 024</td>
<td>(1-12)</td>
</tr>
<tr>
<td><strong>ESL – Level 2d</strong></td>
<td></td>
</tr>
<tr>
<td>Fourth sub-level in the ESL Level (2) sequence. This sub-level is offered when the total contact hours of the other sub-levels is less than 10 hours per week.</td>
<td></td>
</tr>
<tr>
<td>ESL 025</td>
<td>(1-12)</td>
</tr>
<tr>
<td><strong>Focus on Writing Level 2</strong></td>
<td></td>
</tr>
<tr>
<td>Practice in reading, writing, and grammar skills for survival and academic English. Emphasis on vocabulary development, reading comprehension and strategies, and writing for effective communication in a job or daily situations.</td>
<td></td>
</tr>
<tr>
<td>ESL 026</td>
<td>(1-12)</td>
</tr>
<tr>
<td><strong>ESL – Speaking/Listening 2</strong></td>
<td></td>
</tr>
<tr>
<td>Practice in speaking and listening skills needed for job and/or daily situations. Prereq: ESL 012, 016, or placement at ESL Level 2.</td>
<td></td>
</tr>
<tr>
<td>ESL 027</td>
<td>(1-5)</td>
</tr>
<tr>
<td><strong>Intro to Digital Literacy ESL</strong></td>
<td></td>
</tr>
<tr>
<td>Introductory digital literacy course for non-native speakers of English with emphasis on improving vocabulary, reading with understanding, and conveying ideas in writing. Prereq: instructor permission.</td>
<td></td>
</tr>
<tr>
<td>ESL 028</td>
<td>(1-15)</td>
</tr>
<tr>
<td><strong>Workplace ESL Level 2</strong></td>
<td></td>
</tr>
<tr>
<td>Advanced beginning level for non-native speakers of English. Practice English skills needed to obtain or keep a job.</td>
<td></td>
</tr>
<tr>
<td>ESL 030</td>
<td>(1-12)</td>
</tr>
<tr>
<td><strong>ESL Level 3</strong></td>
<td></td>
</tr>
<tr>
<td>Intermediate level course for non-native speakers of English. Continued emphasis on writing practice and reading to improve vocabulary, comprehension and speed and writing practice. Coping and cultural orientation skills needed for vocational or academic program. Prereq: ESL 020 or placement, ESL 022 (N).</td>
<td></td>
</tr>
</tbody>
</table>
Course Descriptions

**ESL 031** (1-15)
Intermediate-level course for non-native speakers of English with continued emphasis on improving vocabulary, reading comprehension and speed. Writing practice includes sentence construction and simple paragraphs. Prereq: ESL 020, ESL 022 or placement.

**ESL 032** (1-15)
Intermediate-level course for non-native speakers of English with continued emphasis on improving vocabulary, reading comprehension and speed. Writing includes sentence construction and simple paragraphs. Prereq: ESL 020, ESL 031 or placement.

**ESL 033** (1-12)
Intermediate-level course for non-native speakers of English with continued emphasis on improving vocabulary, reading comprehension and speed. Writing practice includes sentence construction and simple paragraphs. Prereq: ESL 020, ESL 032 or placement.

**ESL 034** (1-12)
Fast track course for students who are able to study at a faster pace than their classmates. Covers ESL 031, 032 and 033 in one quarter (North covers ESL 031 and 032). North students with less than a 75% average may return to other ESL classes as determined by their instructor. Prereq: Instructor recommendation only.

**ESL 035** (1-15)
Focus on Writing Level 3
For students who want to improve their writing skills. In-depth study of English word order, spelling problems, sentence boundaries, some persistent grammatical problems and simple paragraph writing. Prereq: Placement at Level 3 or teacher recommendation.

**ESL 036** (1-15)
ESL Speaking/Listening 3
Practice in speaking and listening skills needed for job and/or daily situations. Prereq: ESL 022, or placement at ESL Level 3.

**ESL 037** (1-5)
Begin Digital Literacy ESL
Beginning digital literacy course for non-native speakers of English with emphasis on improving vocabulary, reading with understanding, and conveying ideas in writing. Prereq: Completion of ESL 027.

**ESL 038** (1-15)
Workplace ESL 3
Low intermediate level for non-native speakers of English. Practice English skills needed to obtain or keep a job.

**ESL 039** (1-15)
Vocational ESL 3
Intermediate level for non-native speakers of English. Focuses on workplace and survival English and beginning academic English. Includes career planning, test-taking, study skills, interview skills, résumé writing, and computer and math skills. May also cover health, finances, college/training programs and/or citizenship.

**ESL 040** (1-15)
ESL Level 4
Emphasis on oral and listening skills, reading instruction to improve vocabulary, comprehension, speed and writing practice. Prereq: ESL 030, ESL 032 or placement (N).

**ESL 041** (1-15)
ESL Level 4a
Intermediate level course for non-native speakers of English with emphasis on improving vocabulary, reading comprehension and speed. Writing practice includes sentence construction and paragraph development. Prereq: ESL 030, ESL 041 or placement.

**ESL 042** (1-15)
ESL Level 4b
Intermediate-level course for non-native speakers of English with continued emphasis on improving vocabulary, reading comprehension and speed. Writing practice includes sentence construction and simple paragraphs. Prereq: Placement at Level 4 or teacher recommendation.

**ESL 046** (1-15)
ESL Speaking/Listening Level 4
Practice, develop and improve speaking and listening skills needed for daily life, jobs and student educational goals. Emphasis on communication skills, not specific pronunciation. Prereq: Placement at Level 4 for listening skills or teacher recommendation.

**ESL 047** (1-5)
Intermediate Digital Literacy ESL
Intermediate digital literacy course for non-native speakers of English with emphasis on improving vocabulary, reading with understanding, and conveying ideas in writing. Prereq: Placement at ESL 031 or higher and completion of ESL 037 or instructor permission.

**ESL 048** (1-15)
Workplace ESL Level 4
Develop skills necessary to transition successfully into an American college. Practice taking standardized English proficiency and placement tests. Provides information about the application process for financial aid and support services. Explores issues of time management, students' current abilities and styles of learning, barriers, learning deficiencies or skills gaps. Covers strategies for improvement. Prereq: None.

**ESL 049** (1-15)
Vocational ESL Level 4
Supports vocational, technical and employment training.

**ESL 050** (1-15)
ESL Level 5 High
Intermediate ESL course to develop reading, writing and grammar skills for students preparing to take college level courses. Prereq: ESL 042, 044 or placement on the ESL Placement Test (C, S). Placement in ESL 051 or 052 (N).

**ESL 051** (1-15)
ESL Level 5a
High intermediate ESL course with emphasis on reading, writing, speaking and listening and grammar skills. Emphasis on accuracy of sentence level grammar and reading skills involving vocabulary development and inferencing skills. Prereq: ESL 042, 044 or placement.

**ESL 052** (1-15)
ESL Level 5b
High intermediate ESL course with continued emphasis on reading, writing, speaking and listening and grammar skills to prepare students for vocational or academic coursework and for employment. Prereq: ESL 051 or placement.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 055</td>
<td>(1-15)</td>
<td>Focus on Writing Level 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For students who want to improve their writing skills. Study English word order, spelling problems, sentence boundaries, some persistent grammatical problems and simple paragraph writing. Prereq: Placement at Level 5 or teacher recommendation.</td>
</tr>
<tr>
<td>ESL 056</td>
<td>(1-15)</td>
<td>ESL Speaking/Listening Level 5</td>
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<tr>
<td></td>
<td></td>
<td>Upon completion, be able to listen actively and speak so others can understand and participate effectively and independently in conversations on everyday survival, work and social situations, in person and on the telephone.</td>
</tr>
<tr>
<td>ESL 057</td>
<td>(1-5)</td>
<td>Advanced Digital Literacy ESL</td>
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<tr>
<td></td>
<td></td>
<td>Advanced digital literacy course for non-native speakers of English with an emphasis on improving vocabulary, reading with understanding, and conveying ideas in writing. Prereq: ESL 041 or higher and completion of ESL 047 or instructor permission.</td>
</tr>
<tr>
<td>ESL 059</td>
<td>(1-15)</td>
<td>Vocational ESL</td>
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<tr>
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<td></td>
<td>Provides specific support in vocational ESL and assists students pursuing career and professional technical programs.</td>
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<tr>
<td>ESL 060</td>
<td>(1-15)</td>
<td>ESL Level 6</td>
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<tr>
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<td>Emphasis on writing multi-paragraph compositions and reading a variety of texts. Prereq: Placement in ESL 061 or 062.</td>
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<tr>
<td>ESL 061</td>
<td>(1-15)</td>
<td>ESL Level 6a</td>
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<tr>
<td></td>
<td></td>
<td>Emphasis on writing multi-paragraph compositions and reading a variety of texts. Continued work on grammar. Prereq: ESL 052 or placement.</td>
</tr>
<tr>
<td>ESL 062</td>
<td>(1-15)</td>
<td>ESL Level 6b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Emphasis on composition, reading a variety of texts, grammar and vocabulary expansion. Prereq: ESL 061 or placement.</td>
</tr>
<tr>
<td>ESL 063</td>
<td>(1-10)</td>
<td>ESL for IT 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 of 3 non-sequential courses which integrate the Washington State Adult Basic Education ESL Levels 5 and 6 reading, writing, listening and speaking standards with MIC courses, which provide the context for ESL learning outcomes and activities.</td>
</tr>
<tr>
<td>ESL 064</td>
<td>(1-10)</td>
<td>ESL for IT 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 of 3 non-sequential courses which integrate the Washington State Adult Basic Education ESL Levels 5 and 6 reading, writing, listening, and speaking standards with MIC courses, which provide the context for ESL learning outcomes and activities.</td>
</tr>
<tr>
<td>ESL 065</td>
<td>(1-3)</td>
<td>Focus on Writing Level 6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For students who want to improve their writing skills. Study English word order, spelling problems, sentence boundaries, some persistent grammatical problems and simple paragraph writing. Prereq: Placement at Level 6 or teacher recommendation.</td>
</tr>
<tr>
<td>ESL 066</td>
<td>(1-15)</td>
<td>ESL Speaking/Listening Level 6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>On completion, be able to listen actively and speak so others can understand.</td>
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<tr>
<td>ESL 067</td>
<td>(1-15)</td>
<td>Computer Assisted ESL 6</td>
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<tr>
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<td>A self-paced, individualized instructional setting for ESL Level 6 students to build on English skills learned in core ESL classes.</td>
</tr>
<tr>
<td>ESL 068</td>
<td>(1-3)</td>
<td>Educational Interview</td>
</tr>
<tr>
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<td></td>
<td>Helps ESL students at all competency levels identify their current abilities, characteristics, styles and readiness to learn. Intro to campus resources.</td>
</tr>
<tr>
<td>ESL 069</td>
<td>(1-15)</td>
<td>Vocational ESL</td>
</tr>
<tr>
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<td></td>
<td>For ESL students concurrently enrolled in a professional-technical program. Provides specific support in content courses and vocational ESL and assists students in completing their programs and building job-related language skills. Prereq: Permission.</td>
</tr>
<tr>
<td>ESL 070</td>
<td>(1-10)</td>
<td>ESL for IT 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 of 3 non-sequential courses which integrate the Washington State Adult Basic Education ESL Levels 5 and 6 reading, writing, listening and speaking standards with MIC courses, which provide the context for ESL learning outcomes and activities.</td>
</tr>
<tr>
<td>ESL 071</td>
<td>(1-15)</td>
<td>ESL Citizenship 1</td>
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<tr>
<td></td>
<td></td>
<td>Beginning level preparation for the United States citizenship examination through the practice of listening, speaking, reading and writing skills and the study of U.S. history and government. Prereq: ESL Level 3 or higher.</td>
</tr>
<tr>
<td>ESL 072</td>
<td>(1-15)</td>
<td>ESL Citizenship 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intermediate level preparation for the United States citizenship examination through the practice of listening, speaking, reading and writing skills and through the study of U.S. history and government. Prereq: ESL 071 or permission.</td>
</tr>
<tr>
<td>ESL 073</td>
<td>(1-15)</td>
<td>ESL Citizenship 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Continued preparation for the United States citizenship examination through the practice of listening, speaking, reading and writing skills and through the study of U.S. history and government. Prereq: ESL 072 or permission.</td>
</tr>
<tr>
<td>ESL 075</td>
<td>(1-3)</td>
<td>English Pronunciation 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intro to the basics of accurate English pronunciation such as vowel and consonant sounds and sentence intonation. Prereq: Placement in Level 3, 4, or permission.</td>
</tr>
<tr>
<td>ESL 076</td>
<td>(1-5)</td>
<td>English Pronunciation</td>
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<tr>
<td></td>
<td></td>
<td>Intro to some of the basics of accurate English pronunciation for non-native speakers of English: some stressed and unstressed vowel sounds, basic word stress patterns, sentence stress and rhythm and other features.</td>
</tr>
<tr>
<td>ESL 077</td>
<td>(1-15)</td>
<td>Advanced English Pronunciation 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Advanced course on accurate English pronunciation: troublesome vowel and consonant sounds, word stress and sentence intonation. Prereq: Placement into ESL 061 or 092/093 or instructor permission.</td>
</tr>
<tr>
<td>ESL 078</td>
<td>(1-15)</td>
<td>Advanced English Pronunciation 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Advanced course on accurate English pronunciation: troublesome vowel and consonant sounds, word stress and sentence intonation. Prereq: Placement into ESL 061 or 092/093 or instructor permission.</td>
</tr>
<tr>
<td>ESL 079</td>
<td>(1-5)</td>
<td>College Transitional English</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-college course to develop reading skills. Practice in note taking, listening and study skills. Prereq: concurrent enrollment in ESL 080.</td>
</tr>
<tr>
<td>ESL 080</td>
<td>(1-5)</td>
<td>College Transitional English</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-college course to develop reading skills and increase vocabulary.</td>
</tr>
</tbody>
</table>
ESL 084 (1-5)
English for Non-Native Speakers
Thirty-hour Telecourse to help high beginning ESL students improve their speaking, listening comprehension skills and vocabulary. Do speaking, listening, comprehension and vocabulary development exercises. Required attendance for ten three-hour class meetings on campus.

ESL 085 (1-5)
Survey of English Grammar
For students under-prepared for college level English. Covers basic English grammar with a focus on writing simple, compound and complex sentences and paragraphs. Learn and practice academic English vocabulary to enhance writing skills. Prereq: Placement on ESL COMPASS test.

ESL 086 (1-5)
Survey of English Grammar II
Covers intermediate to advanced English grammar with an emphasis on sentence and paragraph writing using simple, compound and complex sentences. Continue developing academic English vocabulary to enhance writing skills. Prereq: Placement on the ESL COMPASS test.

ESL 088 (1-3)
Advanced English Pronunciation
Advanced course on accurate English pronunciation. Covers features such as certain vowel and consonant sounds, word and sentence stress. Prereq: Placement in ESL 092/093 or higher or permission.

ESL 089 (1-5)
Pronunciation Practice/Vocabulary Development
Advanced class on accurate English pronunciation. Practice pronunciation, listening, conversation and writing skills to reinforce the work of ESL classes or other vocational or academic courses. May be repeated a maximum of eight quarters (ESL 089A-H). Must be taken in conjunction with recommended ESL classes. Coreq: Enrollment in ESL 092-099 or permission (C). Prereq: ESL 094/095 placement or permission (N).

ESL 090 (1-5)
Pronunciation for Non-Native Speakers
Emphasizes improving pronunciation and comprehension of spoken English by non-native speakers. Focuses on general and individual pronunciation problems, especially stress and intonation. Includes class presentations and group communications. Prereq: Permission.

ESL 091 (1-5)
Listening/Note Taking—ESL
Improve listening, speaking and note-taking skills necessary for college lecture courses. Participate in lectures, workshop and videotaped lectures. Prereq: Placement on ESL COMPASS test.

ESL 092 (1-5)
English: Non-Native Speakers
For non-native speakers reading below the seventh-grade level. Emphasis on reading comprehension and study skills. Prereq: Placement on English placement test or permission (S); ESL 051, or placement in English placement test (N). Coreq: ESL 093.

ESL 093 (1-5)
English for Non-Native Speakers
Provides English language learners the opportunity to master control of the English sentence, with a strong focus on incorporating grammar into paragraph writing. Through the combination of lectures and workshops, students will build awareness of specific problems in their writing and will learn strategies for reducing them. Prereq: placement on ESL COMPASS Test (C).

ESL 094 (1-5)
English for Non-Native Speakers II
For non-native speakers of English who need practice with basic academic reading, vocabulary, and writing responses to readings. Emphasizes reading comprehension and speed. Prereq: Placement on ESL COMPASS test. Coreqs: ESL 085 and 095.

ESL 095 (1-5)
English for Non-Native Speakers II

ESL 097 (1-5)
College PREP/Non-Natives
For non-native speakers. Practice developing coherent paragraphs into short essays. Review English writing styles and their application to academic writing. Prereq: ESL 093, placement on ESL Compass Test (C); ESL 094/095 or placement on ESL Compass Test (N). Prereq: ESL 095, placement on ESL Compass Test or permission. Coreqs: ESL 096 and 097 (S).

ESL 098 (1-5)
College PREP/Non-Natives
Emphasis on vocabulary, increasing comprehension and formulation of answers to essay questions. Reading includes college-level academic and vocational texts. Concurrent enrollment in ESL 091 or ESL 099 strongly recommended. Prereq: ESL 096, placement on the English placement test or permission.

ESL 099 (1-5)
College PREP/Non-Natives
Develop coherent paragraphs and short essays. Emphasis on complex paragraphs using appropriate style and techniques of paraphrasing and summarizing. Includes library research skills. Preparation for college-level writing. Prereq: ESL 097, placement on the English placement test, or permission. Recommended Coreq: ESL 091 or ESL 098.

French
FRCH& 121 (5)
French I
For students who have not previously studied French. Covers fundamentals of grammar and syntax, oral and written exercises, pronunciation, reading and conversation, and cultural aspects of the countries in which French is spoken. Requires oral practice with CDs outside of class. Recommended: Eligibility for ENGL& 101 (C).

FRCH& 122 (5)
French II
Intended for students who have completed French 121 or its equivalent. Continued study of the fundamentals of grammar and syntax, pronunciation, reading and conversation, and cultural aspects of the countries in which French is spoken. Emphasis on written and oral communication.

FRCH& 123 (5)
French III
Intended for students who have completed French 121 and French 122 or their equivalents. Continued study of the fundamentals of grammar and syntax, pronunciation, reading and conversation, and cultural aspects of the countries in which French is spoken. Increased emphasis on oral communication. Requires oral and listening practice with CDs outside of class.

FRCH& 221 (5)
French IV
Detailed review of French grammar and syntax. Focus on writing, conversation and discussion of literary texts. Includes oral presentations on aspects of francophone cultures. Prereq: FRCH& 123 or permission.
FRCH& 222 (5)
French V
Continuation of FRCH& 221. Prereq: FRCH& 221 or permission.

FRCH& 223 (5)
French VI
Continuation of FRCH& 222. Prereq: FRCH& 222 or permission.

FRCH 298 (1-5)
Independent Study/French
Independent study of selected topic(s) in French. To be arranged with instructor. Prereq: Permission.

FRCH 299 (1-5)
Independent Study/French
Independent study of selected topic(s) in French. Prereq: Permission.

German

GERM& 121 (5)
German I
Covers fundamentals of grammar and syntax, oral and written exercises, pronunciation, reading and conversation, and cultural aspects of the countries in which German is spoken. Requires oral practice with online audio programs. For students who have not previously studied German. Recommended: Eligibility for ENGL& 101 (C).

GERM& 122 (5)
German II
Continuation of GERM& 121. Focus on syntax, oral and written exercises, reading and conversation, fundamentals of grammar, pronunciation and culture. Prereq: GERM& 121 or permission.

GERM& 123 (5)
German III
Continuation of GERM& 122. Emphasis on speaking, reading, writing and grammatical concepts and cultural discussions. Prereq: GERM& 122 or permission.

GERM 299 (5)
Independent Study in German
Furthers skills beyond the level of GERM& 123. Uses an intermediate text of contemporary short stories. Prereq: Permission.

Italian

ITAL 121 (5)
Italian I
For beginning students. Intro to spoken and written Italian with emphasis on speaking, listening and reading comprehension. Covers phonetic system and basic grammar concepts. Includes Italian culture and contemporary customs as an aid in learning the language.

Japanese

JAPN& 121 (5)
Japanese I
For students who have not previously studied Japanese. Intro to Japanese conversation, grammar, culture and the Japanese hiragana writing system. Recommended: Eligible for ENGL& 101 eligibility (C).

JAPN& 122 (5)
Japanese II
Continuation of JAPN& 121. Includes development of speaking, listening, reading and writing skills. Introduces the kanji (Chinese character) writing system and up to 30 basic characters. Prereq: JAPN& 121 or permission.

JAPN& 123 (5)
Japanese III
Continuation of JAPN& 122. Includes development of language skills in all areas. Presents another 60 characters. Prereq: JAPN& 122 or permission.

JAPN& 221 (5)
Japanese IV
Expands basic grammar, vocabulary and writing systems to intermediate level speaking, reading, writing and aural comprehension of the language. Acquire mastery of hiragana, katakana and 100 kanji. Prereq: JAPN& 123 or permission.

JAPN& 222 (5)
Japanese V
Continuation of JAPN& 221. Further expands grammar, vocabulary and writing systems to intermediate level of speaking, reading and writing. Intro to new kanji. Prereq: JAPN& 221 or permission.

JAPN& 223 (5)
Japanese VI
Continuation of JAPN& 222. Further expands basic grammar, vocabulary and writing systems to intermediate level of speaking, reading and writing. Intro to new kanji and the use of the Japanese dictionary. Prereq: JAPN& 222 or permission.

JAPN 298 (1-10)
Study Abroad/Japan
Independent study of selected topic(s) in Japanese arranged with faculty. Prereq: Permission.

JAPN 299 (1-5)
Independent Study/Japanese
Independent study of selected topic(s) in Japanese arranged with faculty. Prereq: Permission.

Linguistics

LAN 101 (5)
Intro to Linguistics
Intro to the study of natural language. Presents the similarities in the basics of language as an instrument of thought and communication. Covers the sources for cultural differentiation between all linguistic materials.

LAN 110 (5)
Comparative Linguistics: American Sign Language & English
Introduction to linguistics as applied to English and American Sign Language. Examination of phonology, morphology, syntax and language use. At Central, fulfills one of the distribution requirements for the Associate of Arts with Emphasis in Deaf Studies. Prereq: ENGL& 101 and ASL& 221 with a minimum GPA of 2.0, or permission.

Spanish

SPAN& 121 (5)
Spanish I
Begins the systematic study of Spanish focusing on listening, speaking, reading, writing, grammar, and cultural aspects of the countries in which Spanish is spoken. Requires oral practice with online audio program. No prior knowledge of Spanish required. Prereq: Eligibility for ENGL& 101 (C)
SPAN & 122  (5)
Spanish II
Continuation of SPAN& 121. Emphasis on pronunciation, oral and written communication. Prereq: SPAN& 121 or permission.

SPAN & 123  (5)
Spanish III
Continuation of SPAN& 122. Prereq: SPAN& 122 or permission.

SPAN & 221  (5)
Spanish IV
Continuation of SPAN& 123. Review of grammatical structures, intensive practice in writing, conversations and reading on a variety of topics. Intro to Hispanic culture, literature and art. Prereq: SPAN& 123 or permission.

SPAN & 222  (5)
Spanish V
Continuation of SPAN& 221. Emphasis on the four aspects of language: reading, writing, listening and speaking through composition, oral presentation and guest speakers. Prereq: SPAN& 221 or permission.

SPAN & 223  (5)
Spanish VI
Continuation of SPAN& 222. Prereq: SPAN& 222 or permission.

SPAN 236  (5)
Latin American Colonial Literature
Surveys literary expressions of Colonial times through 18th century in Spanish America and Peninsular Spain. Covers representative and outstanding prose works of 16th and 17th centuries. Also offered as LIT 236.

SPAN 238  (5)
Chicano Narrative
Intro to significant works in Chicano literature. Study of genre development. Understand the implications of interdependence among diverse cultural groups. Also offered as LIT 238.

SPAN 299  (1-5)
Independent Study
Spanish independent study of selected topics in Spanish arranged with instructor. Prereq: Permission and completion of 100 and 200 series or equivalent.

Vietnamese
A three-course sequence in Vietnamese for beginners. Learn basic communicative skills in modern conversational Vietnamese. Emphasizes the systematic study of phonics, basic grammar, everyday expressions and vocabulary and background in culture and customs.

VIET & 121  (5)
Vietnamese I
Prereq: SLEP/ASSET scores indicating ENGL& 101 readiness or permission.

VIET & 122  (5)
Vietnamese II
Prereq: VIET 121, SLEP/ASSET scores indicating ENGL& 101 readiness or permission.

VIET & 123  (5)
Vietnamese III
Prereq: VIET 121 & VIET 122, SLEP/ASSET scores indicating ENGL& 101 readiness or permission.

VIET & 221  (5)
Vietnamese IV
Vietnamese for second-year students. Increase ability to communicate and interact through speaking, listening, reading and writing. Prereq: VIET 123, SLEP/ASSET placement scores indicating ENGL& 101 readiness, or equivalent and/or permission.

Linguistics
See Languages & Literature, page 48

Marine Technology
MGO 100  (24)
Deckhand Cook
Two-quarter class. Learn cooking theory and train to prepare crew meals at sea. Also includes seamanship, specifically securing ropes and wires to barges, vessel and equipment maintenance checks and repairs and watch-keeping skills.

MGO 101  (2)
Principles of Marine Mechanics
Provides training in proper use of hand tools, power tools (both hand and stationary) and measuring instruments commonly used in mechanical trades. Covers safe work practices, including safety equipment, work procedures, etiquette and regulatory considerations. Includes fastenings, bearings, seals, gasketing methods and other relevant materials and equipment.

MGO 103  (3)
Survival Craft
A study of survival craft commonly found aboard ships today. Training in lifeboat operation and handling congruous to that required for the U.S. Coast Guard rating of Lifeboatman. Includes lifeboat nomenclature and equipment, launching procedures, handling by oars, inflatables and other types of lifesaving equipment.

MGO 105  (3)
Leadership & Management
Examines relevant concepts and principles in management, leadership and organizational communication as they apply aboard ship. Emphasis on instilling an attitude and work ethic required to realize the objectives of ‘social Responsibility’—advocated by the STCW Code. Satisfies the General Education Requirement in human relations.

MGO 111  (3)
Seamanship
Study in seamanship to prepare for employment aboard ship. Includes training in seamanship congruous to that required for the U.S. Coast Guard rating of Able Seaman (AB). Includes nomenclature, ship structure, vessel equipment, deck fittings, knots and splices, rigging and watchstanding duties.

MGO 112  (2)
Marlinspike
Practical instruction in use of line, cordage, wire rope and splicing methods. Includes reeving tackles and rigging stages, boatswain’s chairs, pilot ladders and emergency steering gear.

MGO 113  (3)
Marine Safety
Covers basic damage control, marine firefighting and other safety topics to prepare for employment in the marine industry. Includes stability changes to a damaged vessel, emergency repairs to hull and vessel systems, proper use of marine fire-fighting equipment, vessel safety equipment, shipboard emergency procedures and survival at sea.
MGO 117 (4) Marine Engineering Orientation
This course is the introductory underway practicum for first quarter students. The students receive and indoctrination to shipboard responsibilities for designated duty engineers and practical experience in engine room watchstanding. In addition, the student will receive instruction in the fundamentals of seamanship and will learn to perform preventive maintenance chores while underway. Student will make 8-hour voyages weekly throughout the academic quarter aboard MTC's training vessels.

MGO 119 (3) Marine Mathematics
Reviews algebraic and trigonometric methods. Includes the basics of signed numbers, linear equations, fractions, percentages, plane geometry, measurement and variables which represent additional aspects of mathematics required to solve shipboard problems. Satisfies the General Education Requirement in computation. Prereq: Math placement exam or permission.

MGO 120 (2) Vessel Maintenance
Practical experience in vessel cleaning maintenance procedures and routine operation of a ship. Tasks include washing, sanding, scaling, chipping, grinding, priming, painting, stenciling and other assigned work both on the interior and exterior of training vessels. Focus on proper technique, optimal resource utilization, cost effectiveness and corrosion prevention.

MGO 123 (3) Basic Piloting & Navigation
Introductory course focuses on chart navigation and basic methods of piloting. Emphasis on the use of charts and nautical publications, the IALS “B” buoyage system and solving standard navigation problems. Learn to determine geographic and luminous ranges of lights; correct for compass error, set and drift; plot dead reckoning tracks, running fixes and lines of position; solve time, speed and distance equations; predict tides and tidal currents; calculate simple ETA; formulate anchorage procedures.

MGO 124 (2) Basic Vessel Handling
Covers fundamentals of ship handling for small vessels based on single-screw theory. Instruction in ship handling techniques includes backing and filling, V-backing, emergency stopping, flanking, and docking and undocking. Uses a small training vessel.

MGO 127 (4) Fundamentals of Marine Electricity
Fundamentals of AC and DC electricity and elementary electronics. Focuses on basic theory, measurements and instruments, routine maintenance of electrical components and general operation of shipboard electrical systems. Prereq: MGO 119, MATH 098 or permission.

MGO 133 (6) Seawatch Practicum
Introductory underway practicum. Receive indoctrination to both watchstanding duties and shipboard responsibilities of an able seaman. Perform all deck-related tasks one might expect to encounter when actually at sea. Involves 12-hour voyages weekly aboard SMA's training vessels.

MGO 137 (2) Electronic Navigation
This course introduces the student to standard electronic equipment and systems used to aid navigation and communication. (NB: This course is not designed to satisfy the requirements of either 46 cfr 10.480 or 15.815. Will need to take a USCG-approved radar observer course from an organization certified by the Coast Guard.).

MGO 140 (3) Nautical Rules of Road
Comprehensive study of navigation rules and regulations including purpose, technical provisions and application. Provides a comparative study of the international (COLREGS) and inland (U.S. domestic) rules with emphasis on practical interpretation and application.

MGO 147 (6) Marine Engineering
Practicum Introductory underway practicum. Receive an indoctrination to both watchstanding duties and shipboard responsibilities of a marine engineer. Covers how to read vessel blueprints, trace machinery systems and troubleshoot simulated malfunctions. Involves 12-hour voyages weekly aboard SMA's training vessels.

MGO 166 (6) Navigation Practicum
Advanced underway practicum. Under supervision, assume role of mate aboard ship and be responsible for navigating the training vessel and operating all related navigational equipment as well as directing the deck crew while underway. Demonstrate competency, proficiency and confidence in navigating a vessel without guidance. Includes 12-hour voyages weekly aboard SMA's training vessels. Prereq: MGO 133.

MGO 177 (6) Advanced Engineering Practicum
Advanced underway practicum. Under supervision, assume the role of Designated Duty Engineer aboard ship and be responsible for all facets of the operation of the engine room and related equipment while the training vessel is underway. Demonstrate competency, proficiency and confidence in running an engine room without guidance. Involves weekly 12-hour voyages aboard SMA's training vessels. Prereq: MGO 147.

MGO 200 (1-5) At Sea Internship
Provides real-world at sea experience on vessels of at least 500 gross tons that operate beyond the boundary line. During 30-60 day internship demonstrate mastery of the competencies outlined in Table AII/4 of STCW for ratings forming part of navigational watch or Table AIII/4 of STCW for ratings forming part of an engineering watch.

MRT 101 (14) Intro to Composites
Introduces fiberglass boatbuilding as well as wood joinery. Students work in teams to lay up, by hand, a complete fiberglass hull and then trim it with wood. Industry standards in safety and production will be modeled. Prereq: WCO 110 with a minimum GPA of 2.0.

MRT 102 (4) Intro to Marine Electric
Introduces basic AC and DC electrical systems as found on recreational and small commercial vessels. Safe installation and troubleshooting of engine starting and charging systems, DC house systems for lights, pumps, navigational gear, and shore power AC systems. Prereq: WCO 110 with minimum GPA 2.0.

MRT 103 (10) Wooden Boat Repair
Construction and repair of both contemporary and traditional wooden boats. Topics include tools, wood types, adhesives, pattern making, and interior joinery on wood and composite vessels. Personal and shop safety are emphasized. Prereq: MRT 101 and MRT 102 with a minimum GPA 2.0 for each course.

MRT 104 (8) Marine Mechanical
Introduces basic gas and diesel engine operating principles, service, maintenance, and troubleshooting. Course also covers marine sanitation systems, various marine pumps, and plumbing. Prereq: MRT 101 and MRT 102 with a minimum GPA 2.0 for each course.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Prerequisites/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRT 105</td>
<td>14</td>
<td>Advanced Composites</td>
<td>Complex fiberglass boatbuilding and repair problems, including repair of damaged fiber-glass structures, plug and mold building, and advanced composites, including resin infusion. Direct hands-on experience in safe and productive use of machinery and supplies is emphasized. Prereq: MRT 103 and MRT 104 with a minimum 2.0 GPA for each course.</td>
</tr>
<tr>
<td>MRT 106</td>
<td>4</td>
<td>Marine Electrical II</td>
<td>Advanced vessel electrical systems, sizing of battery banks, AC battery charging systems, inverter systems, engine operation gauge systems, gen-sets, and galvanic corrosion. Preparation for ABYC Marine Electrical Certification exam. Prereq: MRT 103 and MRT 104 with a minimum 2.0 GPA for each course.</td>
</tr>
<tr>
<td>MRT 108</td>
<td>10</td>
<td>Advanced Wooden Boat</td>
<td>Provides the opportunity to build one’s own boat or undertake a more comprehensive boat-restoration project. Emphasis is on performance in a professional manner in safety and project execution. Course is optional. Prereq: MRT 105 and MRT 106 with a minimum GPA of 2.0 for each course.</td>
</tr>
<tr>
<td>MTS 202</td>
<td>2</td>
<td>Stability</td>
<td>Covers principles, terms and procedures used in the determination of longitudinal and damage stability of ships. Includes physical laws affecting a floating body, effects of cargo operations, loose water, fuel consumption, grounding and flooding on vessel stability. Includes analyses of case studies involving loss of stability and how to perform trim and stability calculations.</td>
</tr>
<tr>
<td>MTS 217</td>
<td>4</td>
<td>Diesel Engine Maintenance</td>
<td>A course in marine diesel engines that includes theory, operation, troubleshooting and repair. Students will learn fundamental operating procedures for marine diesel engines. Instructional format combines classroom lectures with applied training in diesel engine labs.</td>
</tr>
<tr>
<td>MTS 219</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTS 221</td>
<td>4</td>
<td>Applied Marine Electric</td>
<td>An applied course in AC and CD motors and generator applications. In this course the student will apply AC and DC electrical theory to typical marine equipment. Topics covered include: 3-phase circuits and transformers, DC machines, AC machines, batteries and power electronics. The student receives practical experience in operating marine electrical equipment in the laboratory, on a panel board simulator and aboard ship.</td>
</tr>
<tr>
<td>MTS 223</td>
<td>3</td>
<td>Advanced Piloting &amp; Navigation</td>
<td>Continuation of MTD 123. Emphasizes advanced aspects of navigation and piloting essential to ocean voyaging. Studies methods for determining ETA of CPA by distance off; learn navigational techniques for ocean sailing and perform advanced ETA computations involving time conversion. Includes use of a sextant in determining position and range, measuring speed by RPM, fuel consumption and use of the speed log.</td>
</tr>
<tr>
<td>MTS 228</td>
<td>5</td>
<td>Marine Hydraulics</td>
<td>Basic survey course utilizing lectures, laboratory experiments, and practical demonstrations. Students will perform routine maintenance, troubleshooting and repair of marine hydraulic equipment. The student will be required to disassemble, analyze and re-assemble various hydraulic components.</td>
</tr>
<tr>
<td>MTS 233</td>
<td>5</td>
<td>Marine Refrigeration</td>
<td>Fundamentals of refrigeration cycles, system components, common refrigerants, theory of operation and preventive maintenance techniques as they apply in the marine industry.</td>
</tr>
<tr>
<td>MTS 257</td>
<td>4</td>
<td>Advanced Diesel Engines</td>
<td>Continuation of MTS 217. Advanced training in the disassembly and rebuilding of marine diesel engines. Special emphasis on air intake systems, fuel injectors, governors, lubrication systems, cylinder wear, ring wear, piston clearances, bearing wear and crank-shaft alignment. Prereq: MTS 217.</td>
</tr>
<tr>
<td>MTS 294</td>
<td>2</td>
<td>License Seminar</td>
<td>Seminar on licensure knowledge requirements for deck/engineering candidates preparing to take the U.S. Coast Guard deck/engineering exams. Learn to consult and reference the Code of Federal Regulations, Title 46 and other publications.</td>
</tr>
</tbody>
</table>

### Mathematics

**MATH 070** Basic Math Skills HCP Designed for advanced ESL (level 5 and above) and ABE students who plan to enter Allied Health programs at North Seattle. Includes math and critical thinking skills needed for success in health care courses at North. Covers whole numbers, fractions, decimals, ratios, percents, metrics, graphs, basic accounting, and medicinal calculations. Particular attention is given to the healthcare context. Prereq: Instructor permission. |
| **MATH 080** Preparatory Mathematics | Computer-based, self-paced math course covering all topics from Basic College Mathematics through Intermediate Algebra. Provides an opportunity to accelerate through the developmental math sequence. Online access code required. Currently requires eligibility for MATH 081, 084, 085, 087, or 096. Beginning Spring 2016, requires eligibility for MATH 081, 087, or 096. |
| **MATH 081** Basic Math Skills | Covers whole numbers, fractions and decimals, percent, ratio and proportion and geometry. Includes intro to algebra and discussions about math avoidance. |
MATH 087 (5) Foundations of Algebra
Basic concepts of algebra that form a foundation for Intermediate Algebra. Topics include evaluating expressions, properties of variables, solving basic linear equations and inequalities, graphing lines in slope-intercept form, interpreting slope and intercepts, solving systems of linear equations by graphing, basic rules of exponents, basic rules of roots, solving simple quadratic equations, and basic polynomial arithmetic. Prereq: MATH 081 with a minimum grade of 2.0 or Placement Exam Score.

MATH 088 (5) Algebra in Context
A quantitative reasoning course in which ideas, concepts, and skills from algebra are applied to real-world contexts. Designed, with MATH 087, to prepare non-STEM students for courses such as MATH 107, 116, and 146. Extensive collaborative learning is utilized. Technology is applied appropriately. Reading and writing are both central elements of the course. Prereq: MATH 087 with a minimum grade of 2.0 or Placement Exam Score or Instructor Permission.

MATH 091 (5) Des Statistics with Algebra 1
For non-STEM majors. First of 3 Statway courses for teaching statistics with integrated algebra. Covers concepts and methods of statistics with emphasis on data analysis, collecting data, graphical and numerical descriptions, correlation and simple linear regression. Application problems are multidisciplinary and multicultural. Completion of Statway sequence results in credit for college-level statistics course. Prereq: Eligible for MATH 084 and ENGL& 101.

MATH 092 (5) Des Statistics with Algebra 2
For non-STEM majors. Second of 3 Statway courses for teaching statistics with integrated algebra. Continuation of content from MATH 091. Completion of Statway—sequence results in credit for a college-level statistics course. Prereq: MATH 091 with 2.0 or higher or permission; eligible for ENGL& 101.

MATH 096 (2) Preparation for Intermediate Algebra
A bridge course between the Foundations of Algebra course (MATH 087) and our Intermediate Algebra course (MATH 098). Designed for future STEM majors and those wishing to fulfill an Intermediate Algebra (MATH 098) prerequisite for transfer to a 4-year institution. Covers polynomial math, square root math, solving quadratic equations, and graphing parabolas. Prereq: MATH 87 with minimum grade of 2.0, or placement exam, or instructor permission.

MATH 097 (5) Elementary Algebra
Fast-paced, for those with previous success in algebra. Includes linear and quadratic equations and graphs, inequalities, exponents, polynomials, rational expressions and radicals. Prereq: Placement exam.

MATH 098 (5) Intermediate Algebra
Covers real number system, polynomial and rational expressions, exponents and radicals, first and second degree equations, linear systems of equations and graphs. Intro to functions and logarithms. Prereq: Placement or MATH 085 or MATH 097 with 2.0 or better. Prereq: One year of high school algebra and placement exam, or MATH 087 and MATH 096 with 2.0 or better, or MATH 084 and MATH 96 with a 2.2 or higher, or permission of instructor (C).

MATH 102 (5) College Algebra

MATH& 107 (5) Math In Society
Primarily for liberal arts majors. Designed to enhance mathematics literacy. Instructors choose college-level topics centered around a theme such as Environmental Math, History of Math, or General Topics in Math. Fulfills QSR requirement for A.A. degree. Minimum 2.0 required to meet Intermediate Algebra proficiency and QSR. Prereq: MATH 098 or placement test. Prereq: Completion of MATH 088 or 098 with a 2.0 or better or placement exam (C).

MATH 110 (3) Applied Math for Technician
Emphasis on applications of mathematics to vocational and technical courses. Prereq: Satisfactory performance on Math placement test.

MATH 119 (3) Math Behind Information Technology
Learn basic aspects of discrete mathematics common to information technology: scientific notation; binary and hexadecimal number systems; logical operations and the design of logical networks; set theory; relations and functions; combinatorics; graphs and directed graphs; regular expressions; and finite-state machines.

MATH 136 (5) Inferential Statistics
For non-STEM majors. Third of 3 Statway courses (MATH 091, 092, 136) for teaching statistics with integrated algebra. Continuation of content from MATH 092. Completion of Statway sequence results in credit for a college-level statistics course. Fulfills QSR requirement for A.A. degree through 2015 only. Prereq: MATH 092 with 2.0 or higher or permission; eligible for ENGL& 101.

MATH& 141 (5) Precalculus I
The sequence Math& 141 and Math& 142 covers polynomial, rational, exponential and logarithmic functions; related functional and algebraic topics; topics in analytic geometry; systems of equations; trig and inverse trig functions; right triangle and oblique triangle trig; polar coordinates; vectors; and related trig applications. Fulfills the QSR requirement for A.A. degree. Prereq: MATH 095 or Math 098 with a 2.5 or higher; MATH 102 with a 2.0 or higher (S); or Placement test.
MATH& 142 (5)  
Precalculus II  
The sequence Math& 141 and Math& 142 covers polynomial, rational, exponential and logarithmic functions; related functional and algebraic topics; topics in analytic geometry; systems of equations; trig and inverse trig functions; right triangle and oblique triangle trig; polar coordinates; vectors; and related trig applications. Fulfills the QSR requirement for A.A. degree. Prereq: MATH& 141.  

MATH& 146 (5)  
Introduction to Stats  
(Formerly MATH 109) Covers descriptive methods, probability and probability distributions, samples, decisions, hypothesis testing and statistical inferences. Fulfills QSR requirement for A.A. degree. Prereq: MATH 098 or Placement test.  

MATH& 148 (5)  
Business Calculus  
Differential and integral calculus with emphasis on polynomial, rational, exponential and logarithmic functions. Draws applications from social sciences, biology, medicine and ecology with special emphasis on business and economic applications. Fulfills QSR requirement for A.A. degree. Prereq: MATH 116 or MATH& 141, with a 2.0 or better.  

MATH& 151 (5)  
Calculus I  
The sequence Math& 151, &152 and &163 covers limits, differential calculus and its applications, integral calculus and its applications, intro to differential equations, series including Taylor series, vector geometry in three dimensions, multivariable calculus, partial differentiation, double integrals in Cartesian and polar coordinates and applications. Fulfills QSR requirement for A.A. degree. Prereq: MATH 102 with a 2.0 or higher (S); or Placement test.  

MATH& 152 (5)  
Calculus II  

MATH& 163 (5)  
Calculus 3  
The sequence MATH&151, &152 and &163 covers limits, differential calculus and its applications, integral calculus and its applications, intro to differential equations, series including Taylor series, vector geometry in three dimensions, multivariable calculus, partial differentiation, double integrals in Cartesian and polar coordinates and applications. Fulfills QSR requirement for A.A. degree. Prereq: MATH& 152.  

MATH 198 (1-5)  
Mathematics Workshop  
A problem-solving workshop using math topics considered appropriate by the instructor. May include study skills, note-taking systems, test-taking strategies and group problem-solving approaches.  

MATH 220 (5)  
Linear Algebra  
Intro to linear algebra and its applications. Includes systems of linear equations, matrices, determinants, vector spaces, inner product spaces, eigenvalue problems, and similarity transformations. Prereq: MATH& 163 with a 2.0 or higher or permission.  

MATH 224 (5)  
Vector Calculus  
Continuation of MATH& 163. Includes vector-valued functions, vector fields, line and surface integrals and the theorems of Green, Gauss and Stokes, vector operators and the extension of the calculus to the vectors in 2-D and 3-D space. Prereq: MATH& 163 with a 2.0 or higher or permission.  

MATH 238 (5)  
Differential Equations  
Covers first order differential equations, second order differential equations, their applications, and Laplace transforms. Covers the elementary theory of differential equations and the interrelationship between pure mathematics and applied mathematics. Prereq: MATH& 152 or higher; MATH& 163 strongly recommended.  

MATH 298 (1-5)  
Special Topics in Math  
Problem-solving for special math topics. Prereq: Permission.  

MATH 299 (1-5)  
Independent Study  
Independent study of problems or topics of special interest. Prereq: Permission.  

Meteorology  
MEY 100 (5)  
Meteorology  
Intro to the composition, structure, motions and origin of the atmosphere; forecasting; climates and how they have changed through time; and effects of human activities on weather and climate.  

MEY 298 (5)  
Special Topics  
Seminar on selected topics or activities in meteorology. Prereq: MEY 100 or permission.  

MEY 299 (5)  
Independent Study  
Independent study of approved topics in meteorology. Prereq: MEY 100 and permission.  

Music  
MUSC 100 (5)  
Music in Western World  
Intro to classical music. Provides an understanding of musical expression through works of the great composers. Emphasizes music listening through recordings, films and special performances.  

MUSC 105 (5)  
Music Appreciation  
Intro to the human and cultural values of music through the study of compositions from the Western tradition. Examines the reciprocal influences between society and music, past and present, and the influences of world culture on Western composers.  

MUSC 110 (5)  
Intro to World Music  
Covers the music of selected societies of the world within their cultural context. Using musical concepts on a cross-cultural basis, examine various cultural areas and societies.  

MUSC 113 (5)  
Music in the U.S.  
Overview of musical developments in the United States from Colonial times to the present, using live performances, videotapes and recordings. Examines contributions of ethnic/minority groups and the relevant social issues connected with these musical experiences.
MUSC 116 (5)  
Rock Music I  
Examines rock music as a musical, social, cultural, economic and political force in the United States. Emphasizes decades of rock music development.

MUSC 117 (5)  
Rock Music II  
Examines rock music as a musical, social, cultural, economic and political force in the United States. Emphasis on the later decades of rock music development.

MUSC 119 (1-3)  
Beginning Group Instruction Voice  
Emphasis on beginning techniques of breath control, placement of tone, posture and other basic concepts. Recommended: enrollment in MUSC 125 for students without experience in reading music (C,S).

MUSC 120 (2)  
Beginning Group Instruction Voice  
Continuation of MUSC 119. Prereq: MUSC 119 or permission.

MUSC 125 (5)  
Fundamentals of Music  
Intro to reading and writing music for non-majors. Builds musical knowledge and skills to complement student's natural music ability.

MUSC 126 (2)  
Beginning Group Piano  
1st Qtr Class piano for general student to develop reading skills and technical proficiency.

MUSC 127 (2)  
Beginning Group Piano  
2nd Qtr Class piano for students with previous keyboard experience. Prereq: MUSC 126 or permission.

MUSC 128 (2)  
Beginning Group Piano  
3rd Qtr Continuation of MUSC 127. Prereq: MUSC 127.

MUSC 130 (1-2)  
Individual Instruction: Voice  
Credit hours vary. May be repeated. An additional fee is charged for all individual instruction in this series. Prereq: Permission.

MUSC 134 (1-2)  
Individual Instruction: Woodwinds  
Credit hours vary. May be repeated. An additional fee is charged for all individual instruction in this series. Prereq: Permission.

MUSC 135 (1-2)  
Individual Instruction: Percussion  
Credit hours vary. May be repeated. An additional fee is charged for all individual instruction in this series. Prereq: Permission.

MUSC 136 (1-2)  
Individual Instruction: Composition  
Credit hours vary. May be repeated. An additional fee is charged for all individual instruction in this series. Prereq: Permission.

MUSC 137 (2)  
Individual Instruction: Harpsichord  
Credit hours vary. May be repeated. An additional fee is charged for all individual instruction in this series. Prereq: Permission.

MUSC 138 (1-2)  
Individual Instruction: Guitar  
Credit hours vary. May be repeated. An additional fee is charged for all individual instruction in this series. Prereq: Permission.

MUSC 139 (1-2)  
Individual Instruction: Harp  
Credit hours vary. May be repeated. An additional fee is charged for all individual instruction in this series. Prereq: Permission.

MUSC 140 (1-5)  
College Choir  
Focus on musicianship, vocal techniques and performance skills for the large choral ensemble through study of literature from all stylistic periods. Present one concert per quarter in various musical styles and cultures. Daily attendance required. May be repeated for up to 15 credits. Prereq: Ability to match pitch.

MUSC& 141 (5)  
Music Theory I  
Covers rudiments of music notation, scales, intervals and triads, rhythmic and melodic sight-reading and dictation. Increases simple four-part writing and analysis and correlated keyboard exercises. For music majors and minors.

MUSC& 142 (5)  
Music Theory II  
Continuation of MUSC& 141. Elementary harmony and ear training including 4-part harmony. Prereq: MUSC& 141 or permission.

MUSC& 143 (5)  
Music Theory III  
Continuation of MUSC& 142. Prereq: MUSC& 142.

MUSC 144 (2)  
Vocal Jazz Ensemble  
Small vocal ensemble which performs jazz music.

MUSC 145 (2)  
Pop Vocal Ensemble  
Singing group featuring pop, Broadway show tunes and jazz. Focus on enjoyment and enrichment. Performances quarterly.

MUSC 146 (5)  
Jazz Ensemble I Jazz  
Ensemble is the Jazz performance group for Seattle Central. Participate in jazz combo, duo, trio, quartet and big band settings. Music drawn from representative genres, composers and performers. Prereq: Ability to play an instrument and sight read music at a 12th grade level or higher.

MUSC 147 (5)  
Jazz Ensemble II  
Continues the study of jazz performance repertoire, musicianship and technical skills from MUSC 146. Provides opportunity to learn the art of ensemble playing and singing in the jazz idiom. Focuses on small group and large ensemble rehearsal techniques, practice routines and improvisation. Prereq: Ability to sight read music at a 12th grade level or higher.

MUSC 148 (5)  
Jazz Ensemble III  
Provides opportunity to perform in a small-combo and big band jazz ensemble. Explores the literature associated with modern jazz composers such as Dizzy Gillespie, Herbie Hancock, Thelonious Monk, Charles Mingus, Chick Corea and more. Examine and perform avant-garde and contemporary jazz styles in a small group setting. Prereq: Ability to read music at a 12th grade level or higher.

MUSC 149 (2)  
Jazz Combo  
Performance class requiring reading and improvisational skills. Develops small ensemble skills in the jazz musician as a vocalist or instrumentalist.

MUSC 150 (5)  
Studio Jazz Orchestra  
MUSC 151 (1-3) Performance Experience
Instruction on presenting a public performance the skills beyond the notes. Work as soloists or in small combinations. All styles. Prereq: Performance ability.

MUSC 153 (2) Contemporary Jazz Ensemble
Membership by audition. Combines talents of professional and student musicians in the big band experience. Practice and perform in concert the newest big band arrangements which cover all styles of big band jazz. Evening rehearsals. Prereq: Ability to perform at group level and permission.

MUSC 154 (1-2) Symphonic Band
Features the finest in Wind band literature, both contemporary and traditional. Membership by audition.

MUSC 156 (5) Jazz Improvisation I
Develops skills in improvisation and confidence in playing or singing in solo and combo settings, representing standard compositions from the art of jazz. Prereq: Ability to sight read music at a 12th grade level or higher.

MUSC 157 (5) Jazz Improvisation II
Continues study of jazz improvisation with theoretical and technical concepts relating to the art of spontaneous improvisation. Work closely within a professional performance setting and learn the skills necessary for individual and group interaction in the traditional jazz combo and large ensemble presentations. Prereq: Knowledge of major/minor scales and basic keyboard skills.

MUSC 158 (5) Jazz Improvisation III
Augments repertoire by studying compositions of modern jazz improvisers such as Chick Corea, Herbie Hancock and Wayne Shorter. Learn techniques associated within the style and receive instruction on the fundamentals, repertoire and technical studies introduced in MUSC 156 and 157. Recommended: MUSC 157. Prereq: Knowledge of major/minor scales, modes and basic keyboard skills and permission.

MUSC 160 (5) Blues and Its Influence
Explores the development of the blues and its influence on jazz, rock, classical music and literature. Covers the social, economic and political forces that shaped African-American experiences in the U.S. as chronicled in blues music.

MUSC 161 (5) History/American Pop Music
History of American popular music from colonial times to contemporary styles. Analysis of musical characteristics, as well as social/cultural contexts of development.

MUSC 163 (5) Musical Theater/Stage
Covers principles of voice production, resonance and projection. Learn effective presentation of varied materials. Fills the gap between the teacher's studio and professional performance.

MUSC 164 (2) College Chorus
Vocal ensemble. May be repeated for additional credit.

MUSC 165 (1-2) Community Chorale
Performs literature for the large choral ensemble. Meets one evening weekly.

MUSC 166 (2) Vocal Ensemble
Small vocal ensemble performs music from several different periods, including contemporary.

MUSC 168 (5) Computer Music Recording
Intro to the technical skills of electronic music production and recording. Covers the basic elements of music including listening, improvising, recording, arranging, mixing and digital editing. Create original music using sound shaping, effects and midi sequencing. Open to all students.

MUSC 169, 130 and/or DRMA& 101.

MUSC 171 (1-2) Individual Instruction: Piano
Credit hours vary. May be repeated. An additional fee is charged for all individual instruction in this series. Prereq: Permission.

MUSC 172 (1-2) Individual Instruction: Strings
Credit hours vary. May be repeated. An additional fee is charged for all individual instruction in this series. Prereq: Permission.

MUSC 173 (1-2) Individual Instruction: Brass
Credit hours vary. May be repeated. An additional fee is charged for all individual instruction in this series. Prereq: Permission.

MUSC 174 (1-2) Individual Instruction: Drum
Credit hours vary. May be repeated. An additional fee is charged for all individual instruction in this series. Prereq: Permission.

MUSC 182 (4) Intro to Musical Theatre
Basic instruction in dramatic and vocal discipline of musical theater. Learn basic techniques of analysis, rehearsal and performance of musical theater through the study of scenes and in-class performance. Recommended: MUSC 119, 130 and/or DRMA& 101.
## Course Descriptions

### New Media

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NME 110</td>
<td>New Media I</td>
<td>Use authentic tasks and projects to prepare for real-world work demands encountered in respective fields. Work collaboratively in projects, exploring the role of communications in the context of New Media and society.</td>
</tr>
<tr>
<td>NME 120</td>
<td>New Media II</td>
<td>Use authentic tasks and projects to prepare for real-world work demands encountered in respective fields. Work collaboratively in projects, exploring the role of communications in the context of New Media and society.</td>
</tr>
<tr>
<td>NME 130</td>
<td>New Media III</td>
<td>Use authentic tasks and projects to prepare for real-world work demands encountered in respective fields. Work collaboratively in projects, exploring the role of communications in the context of New Media and society.</td>
</tr>
</tbody>
</table>

### Nursing

**NOTE:** Most courses require concurrent enrollment. Please check program section for specific requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NET 200</td>
<td>Enterprise Applications</td>
<td>Capstone course for network infrastructure students. Simulate a small business environment in hardware and software from a case study and apply the skills from the foundation networking courses. Further explore enterprise applications and server needs of businesses as directed by industry standards and trends. Prereq: NET 126 with 2.0 or better or permission.</td>
</tr>
<tr>
<td>NME 110</td>
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</tr>
<tr>
<td>NUR 101</td>
<td>Nursing I: Fundamentals of Nursing</td>
<td>Intro to core nursing concepts, organized around the individual as a biopsychosocial being, constantly interacting with and adapting to a changing environment. Covers principles of critical thinking, the nursing process, the role of the nurse, cultural views of health and principles of growth and development with emphasis on the aging process. Addresses images and impressions of nursing, current trends in health care delivery and legal and ethical issues in nursing. Coreq: NUR 111, 122 and MATH &amp; 107.</td>
</tr>
<tr>
<td>NUR 102</td>
<td>Nursing II: Medical-Surgical Nursing</td>
<td>First of 4 medical-surgical theory courses. Develop a comprehensive understanding of homeostasis and the adaptation of clients to the complex processes of the physiologic mode. Emphasis on alterations in fluid and electrolyte balance, acid-base balance, endocrine functions, compromise in wound healing and peripheral vascular circulation. Prereq: Completion of 1st quarter with 2.5 or higher. Coreq: NUR 112, 123 &amp; NTR 150.</td>
</tr>
<tr>
<td>NUR 103</td>
<td>Nursing III: Medical-Surgical Nursing</td>
<td>Second of 4 medical-surgical theory courses. Develop a comprehensive understanding of homeostasis and adaptation with emphasis on alterations in neurologic, musculoskeletal, chronic respiratory and chronic cardiovascular systems. Covers key concepts of adaptation to the complex processes of movement and cognition, oxygenation and circulation. Prereq: Completion of 2nd quarter with 2.5 or higher. Coreq: NUR 113, 185 and PSYC &amp; 200.</td>
</tr>
<tr>
<td>NUR 106</td>
<td>LPN/RN Transition</td>
<td>Designed for the LPN to make a successful transition to RN student at the 4th quarter level. Emphasis on applying critical thinking and nursing process to selected physiologic and psychosocial alterations. Individualized instruction based on initial diagnostic assessment. Coreq: NUR 120.</td>
</tr>
<tr>
<td>NUR 112</td>
<td>Nursing Practice II</td>
<td>Builds on NUR 111. Apply concepts relevant to adaptation in the basic physiological and psychosocial modes, client response and administration of medications. Assess the four adaptive modes. Gain experience in complete assessment, care planning and principled application of nursing skills in practice lab and clinical setting. Prereq: Completion of 1st quarter with 2.5 or higher. Coreq: NUR 102, 123 and NTR 150.</td>
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<tr>
<td>NUR 113</td>
<td>Nursing Practice III</td>
<td>Builds on NUR 112. Emphasizes integrating nursing theory, clinical data, skills in providing nursing care and developing priorities. Assess the four adaptive modes, gain experience in individualized assessment and care planning and apply nursing skills in practice lab and clinical setting. Prereq: Successful completion of 2nd quarter. Coreq: NUR 103, 185 &amp; PSYC &amp; 200.</td>
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<tr>
<td>NUR 114</td>
<td>Nursing Practice</td>
<td>Builds on the foundation established in NUR 111, 112 and 113.</td>
</tr>
<tr>
<td>NUR 120</td>
<td>LPN/RN: Assessment &amp; Intervention</td>
<td>Integrates critical thinking in practical caregiving situations. Emphasis on principles used in performing selected nursing skills in various contexts. Coreq: NUR 106.</td>
</tr>
<tr>
<td>NUR 122</td>
<td>Psychosocial Nursing I</td>
<td>First of 2 psychosocial nursing courses. Focuses on communication pertinent to the care of clients in various health care settings throughout the lifespan. Practice therapeutic and professional communication techniques. Assess adaptation in self-concept, role function and independence of clients who are coping with acute and chronic illness. Learn group process. Coreqs: NUR 101, 111 and MATH &amp; 107.</td>
</tr>
</tbody>
</table>
NUR 123 (4)
Pharmacology for Nursing
Intro to basic concepts of drug therapy, roles and responsibilities of nurses, and applying critical thinking and the nursing process for safe medication administration. Includes terminology, resources and regulations related to drug therapy and principles of pharmacokinetics, pharmacodynamics and pharmacotherapeutics. Major classifications of drugs include autonomic nervous system agents; parenteral fluids; electrolytes; vitamins and minerals; endocrine, neurologic, respiratory and selected cardiovascular agents; anesthetic, immune system and gastrointestinal agents. Coreqs: NUR 102, 112 & NTR 150.

NUR 185 (2)
Gerontology for Nurses
Study adaptations of normal aging, differentiating these adaptations from disease and learn the implications for nursing care. Covers psychosocial, legal and ethical issues common in gerontological nursing practice. Prereq: Completion of 2nd quarter with a 2.5 or higher. Coreq: NUR 101, 102, 113 and Schedule W 200.

NUR 190 (2)
ADN Prog Study Group I
Enhances the lecture material presented in required core nursing courses each quarter. Focuses on understanding concepts relevant to adaptation in the basic physiological and psychosocial modes. Emphasizes the nursing process as the scientific basis for practice. Coreqs: Enrollment in all concurrent Nursing courses for the quarter specified.

NUR 191 (2)
ADN Prog Study Group II
Enhances the lecture material presented in required core nursing courses each quarter. Focuses on understanding concepts relevant to adaptation in the basic physiological and psychosocial modes. Emphasizes the nursing process as the scientific basis for practice. Coreqs: Enrollment in all concurrent Nursing courses for the quarter specified.

NUR 192 (2)
ADN Prog Study Group III
Enhances the lecture material presented in required core nursing courses each quarter. Focuses on understanding concepts relevant to adaptation in the basic physiological and psychosocial modes. Emphasizes the nursing process as the scientific basis for practice. Coreqs: Enrollment in all concurrent Nursing courses for the quarter specified.

NUR 199 (1-12)
LPN Practice
Independent clinical practicum for LPN graduates to practice in a clinical setting with a preceptor, gaining in-depth experience in a chosen specialty area. Carry out full-shift nursing care and home nursing skills in real-life situations in preparation for jobs or further LPN/RN studies. Prereq: NUR 170, 171, 172, 173, 174, NCLEX & LPI/J WA State certification.

NUR 201 (2)
Nursing IV A: Psychosocial Nursing II
Second of 2 psychosocial nursing courses. Builds on NUR 120 (or NUR 106), focuses on caring for clients with mental illness using a system with cognator and regulator subsystems to maintain adaptation in the four adaptive modes. Covers psychosocial assessment and therapeutic interventions in psychiatric disorders at three levels: integrated, compensatory and compromised. Prereq: Completion of 3rd quarter or LPN/RN Transition courses with 2.5 or higher. Coreq: NUR 211, 206, 216.

NUR 206 (3)
Nursing IV B: Medical/Surgical
Third of 4 medical-surgical courses. Builds on NUR 101, 102 & 103. Develop a comprehensive understanding of homeostasis and the adaptation of clients to the complex processes of the physiologic mode. Emphasizes alterations in select integumentary and immune or protective responses and surgical therapies. Prereq: Completion of 3rd quarter or LPN/RN Transition courses with 2.5 or higher. Coreq: NUR 201, 206, 216.

NUR 216 (3)
Nursing Practice IV A
In a psychiatric setting focus on adaptation in the basic physiological and psychosocial modes and client response. Integrates nursing theory, clinical data and skills in nursing care and developing priorities. Assess the four adaptive modes in clinical setting, gain experience in individualized assessment and care planning and apply therapeutic skills in practice lab and clinical setting. Prereq: Completion of 3rd quarter LPN/RN Transition courses with 2.5 or higher. Coreq: NUR 201, 206, 216.

NUR 217 (5)
Nursing Practice V
Study adaptation in the basic physiological and psychosocial modes and client response. Emphasizes analysis of client data and health care interventions, initiating nursing assessments and interventions, health promotions and education and developing leadership skills. Assess the four adaptive modes, gain experience in individualized assessment and care planning and apply nursing skills in a variety of clinical settings. Prereq: Completion of all 4th quarter with 2.5 or higher. Coreq: NUR 207 & 220.

NUR 218 (3)
Nursing Practice VI
Emphasis on adaptation in the developing family. Apply concepts from NUR 208 relevant to adaptation in the basic physiological and psychosocial modes and client response. Assess the four adaptive modes in the clinical setting. Obtain experience in individualized assessment, care planning, and principled application of nursing skills in a variety of clinical settings. Coreqs: NUR 208, 230.
NUR 220 (2)  
Health Promotion/Managing Care  
Intro to theoretical foundations of health promotion, education and wellness maintenance across the lifespan and to the leadership role in Nursing. Emphasizes planning health promotions and managing care in a variety of settings. Addresses leadership in nursing: traits, styles, problem-solving, change, team communication, conflict management, delegation, time management and the implications of health care trends. Linked to final medical-surgical rotation. Prereq: Completion of 4th quarter with a 2.5 or higher. Coreq: NUR 207 & 217.

NUR 230 (2)  
Transition to Professional Nursing Role  
Covers the transition from the role of student to Registered Nurse. Focuses on the role of the RN in health care, the community and organizations. Emphasizes professional and legal obligations, obtaining and maintaining licensure, professional organizations, continuing education and job searching. Includes preparation for the NCLEX/RN exam. Prereq: Completion of 5th quarter with a 2.5 or higher. Coreq: NUR 208 & 218.

NUR 290 (2)  
ADN Prog Study Group IV  
Enhances the lecture material presented in required core nursing courses each quarter. Focuses on understanding concepts relevant to adaptation in the basic physiological and psychosocial modes. Emphasizes the nursing process as the scientific basis for practice. Coreqs: Enrollment in all concurrent Nursing courses for the quarter specified.

NUR 291 (2)  
ADN Prog Study Group V  
Enhances the lecture material presented in required core nursing courses each quarter. Focuses on understanding concepts relevant to adaptation in the basic physiological and psychosocial modes. Emphasizes the nursing process as the scientific basis for practice. Coreqs: Enrollment in all concurrent Nursing courses for the quarter specified.

NUR 292 (2)  
ADN Prog Study Group VI  
Enhances the lecture material presented in required core nursing courses each quarter. Focuses on understanding concepts relevant to adaptation in the basic physiological and psychosocial modes. Emphasizes the nursing process as the scientific basis for practice. Coreqs: Enrollment in all concurrent Nursing courses for the quarter specified.

NUR 299 (1-5)  
Independent Study in Nursing  
Independent study in selected nursing topics under faculty supervision. Prereq: Permission.

NUTR 101 (5)  
Nutrition  
Introduction to human nutrition with an emphasis on the relationship of nutrition to growth, development, health, and physical and mental functioning across the lifespan. Sources, functions, interrelationships, and human requirements of proteins, carbohydrates, fat, minerals, vitamins and water will be examined. Topics also include analysis of personal dietary habits, public health issues such as obesity and access to food and food security, and the role of nutrition in chronic disease. Prereq: Eligibility for MATH 084, 087, or 091 and completion of ENGL& 101 with a 2.0 or better (C).

OCEA 100 (5)  
Intro to Oceanography  
Survey of the ocean in terms of physical, chemical, geological and biological processes and the human influence upon the ocean's natural equilibrium processes. Prereq: Eligibility for MATH 084, 087, or 091 (C).

OCEA 101 (5)  
Intro Oceanography with Lab  
Explore the basic fields of ocean science: marine geology, biological, chemical and physical oceanography. Investigate natural disasters in the Pacific Northwest, the effects of climate change on the ocean, tribal whaling and fisheries decline. Lab. Prereqs: Eligibility for ENGL& 101 and MATH 084. Prereq: Eligibility for MATH 084, 087, or 091 (C).

OCEA 298 (5)  
Special Topics: Oceanography  
Selected topics or activities in oceanography. Prereq: Permission.

OCEA 299 (5)  
Independent Study – Oceanography  
Study of selected topics in oceanography. Prereq: OCE 100 and permission.

Opticianry

OPH 100 (2)  
Orientation to Ophthalmic Optics  
Intro to optical mechanics, ophthalmic dispensing and optics and products. Overview of the optical business and the job of the ophthalmic dispenser. Prereq: Permission.

OPH 101 (5)  
Optical Theory I  
Focuses on ophthalmic lens optics and eyeglass fabrication process and introduces practical application of ophthalmic lens equations. Includes study of powers of spectacle lenses including ophthalmic prisms and aberrations. Prereq: Successful completion of first quarter opticianry program courses with a minimum GPA of 2.0.

OPH 102 (4)  
Optical Theory II  
Continuation of OPH 101. Introduces refraction and refraction principles. Emphasis on light theories, propagation, ray tracing, plane surfaces and prisms. Prereq: Successful completion of second quarter opticianry program courses with a minimum GPA of 2.0.

OPH 103 (3)  
Optical Theory III  
Covers multi-focal lenses: origin, development, types and applications. Includes study of presbyopia and other conditions requiring correction and introduces presbyopic prescription analysis. This course specifically includes the study of prescriptions for eyeglasses/contact lenses, how they are obtained and the associated customer service. Prereq: Successful completion of third quarter opticianry program courses with a minimum GPA of 2.0.

OPH 105 (3)  
Ocular Anatomy & Physiology  
Covers anatomy and physiology of the human eye, including relation of ocular anatomical structures to the visual process. Emphasis on ocular terminology. Prereq: Successful completion of second quarter opticianry program courses with a minimum GPA of 2.0.

OPH 106 (3)  
Contact Lenses Tech I  
Covers basic principles of contact lenses: history, manufacturing methods, terminology, optics, equipment for fitting and evaluation of contact lens candidates. Lab demonstration on use of radius gauge, ophthalmometer, thickness and diameter gauges, shadowgraph and biomicroscope. Prereq: Successful completion of third quarter opticianry program courses with a minimum GPA of 2.0.
OPH 107 (3)
Ophthalmic Dispensing I
Intro to responsibilities of the ophthalmic dispenser, including facial measurements, cosmetic considerations, frame fitting and selection based on prescription. Includes practical projects, role-playing and demonstrations. Prereq: Successful completion of first quarter opticianry program courses with a minimum GPA of 2.0.

OPH 108 (3)
Ophthalmic Dispensing II
Covers ophthalmic dispensing procedures relating to complex prescriptions: fitting, adjusting and ordering procedures with emphasis on multi-focal and absorptive lenses. Includes low-vision aids. Refines communication skills. Prereq: Successful completion of second quarter opticianry program courses with a minimum GPA of 2.0.

OPH 110 (2)
Optical Lab Tech I
Covers lens surfacing, instrumentation, ophthalmic laboratory procedures, laboratory safety procedures, and lens design as related to eyeglass fabrication and basic optical terminology. Prereq: Permission.

OPH 111 (2)
Optical Lab Tech II
Continuation of OPH 110. Introduction to laboratory equipment, including applications and lens surfacing. Multifocal lens designs are introduced. Basic ophthalmic prism concepts are introduced. Prereq: Successful completion of first quarter opticianry program courses with a minimum GPA of 2.0.

OPH 112 (2)
Optical Lab Tech III
Continuation of OPH 111. Introduction to the history and optics of progressive lenses. Lens standards will be discussed as well as yoked prism and prism thinning. Prereq: Successful completion of second quarter opticianry program courses with a minimum GPA of 2.0.

OPH 113 (2)
Finishing I
Covers finishing work with emphasis on procedures and machinery for automatic edging. Studies American National Standards Institute guidelines. Intro to lens toughening procedures and stress testing.

OPH 120 (1)
Optical Laboratory Technology Equipment & Techniques I
An introduction to the equipment and procedures used in the ophthalmic laboratory. This course covers the use of the focimeter, lens clock, and thickness gauges. Prescription and lens analysis is also introduced. Prereq: Permission.

OPH 121 (1)
Optical Laboratory Technology Equipment & Techniques II
Continuation of OPH 120. This course is designed to build upon the ophthalmic laboratory techniques learned in OPH 120 as well as to orient the student to laboratory equipment. Prereq: Successful completion of first quarter opticianry program courses with a minimum GPA of 2.0.

OPH 122 (1)
Optical Laboratory Technology Equipment & Techniques III
OPH 122, Optical Laboratory Equipment and Techniques III, is a continuation of OPH 121. This course is designed to build upon the ophthalmic laboratory techniques learned in OPH 121 as well as to analyze ophthalmic lenses with greater speed and accuracy. Prereq: Successful completion of second quarter opticianry program courses with a minimum GPA of 2.0.

OPH 123 (3)
Finishing I
Ophthalmic laboratory finishing equipment and techniques will be studied. Laboratory flow and methods of lens production will be taught. Prereq: Successful completion of third quarter courses with a minimum GPA of 2.0.

OPH 124 (2)
Contact Lens & Equipment I
This beginning lab class introduces the use of the equipment needed to fit and evaluate contact lenses. You will learn how to operate the keratometer, biomicroscope, radiuscope and continue to use your lensometer skills to evaluate contact lenses. Prereq: Successful completion of third quarter opticianry program courses with a minimum GPA of 2.0.

OPH 125 (2)
Ophthalmic Dispensing I E&T
This course is the first of two dispensing classes. It is designed to teach the basics in frame and lens selection as well as patient measurements and frame adjustments to find that first job and complete co-operative education. This class is hands on and you will be practicing each of the assignments with students in class. Prereq: Successful completion of first quarter opticianry program courses with a minimum GPA of 2.0.

OPH 126 (2)
Contact Lens & Equipment II
This course helps fine tune skills as a dispenser and includes more detailed information on adjustments and lenses. Prereq: Successful completion of second quarter opticianry courses with a minimum GPA of 2.0.

OPH 127 (2)
Ophthalmic Dispensing II E&T
This course helps fine tune skills as a dispenser and includes more detailed information on adjustments and lenses. Prereq: Successful completion of second quarter opticianry courses with a minimum GPA of 2.0.

OPH 128 (2)
Contact Lens & Equipment III
This course helps fine tune skills as a dispenser and includes more detailed information on adjustments and lenses. Prereq: Successful completion of second quarter opticianry courses with a minimum GPA of 2.0.

OPH 129 (2)
Ophthalmic Dispensing III E&T
This course helps fine tune skills as a dispenser and includes more detailed information on adjustments and lenses. Prereq: Successful completion of second quarter opticianry courses with a minimum GPA of 2.0.

OPH 130 (2)
Ophthalmic Dispensing IV E&T
This course helps fine tune skills as a dispenser and includes more detailed information on adjustments and lenses. Prereq: Successful completion of second quarter opticianry courses with a minimum GPA of 2.0.

OPH 131 (2)
Ophthalmic Dispensing V E&T
This course helps fine tune skills as a dispenser and includes more detailed information on adjustments and lenses. Prereq: Successful completion of second quarter opticianry courses with a minimum GPA of 2.0.

OPH 132 (2)
Ophthalmic Dispensing VI E&T
This course helps fine tune skills as a dispenser and includes more detailed information on adjustments and lenses. Prereq: Successful completion of second quarter opticianry courses with a minimum GPA of 2.0.

OPH 133 (2)
Ophthalmic Dispensing VII E&T
This course helps fine tune skills as a dispenser and includes more detailed information on adjustments and lenses. Prereq: Successful completion of second quarter opticianry courses with a minimum GPA of 2.0.

OPH 187 (1-3)
Work Experience
Cooperative Education is an academic program that integrates the student’s educational experience with supervised work, intern, or volunteer experience. OPH 187 is the first course in which students apply knowledge and hone basic skills in the workplace. Students earn academic credit towards their degree in opticianry. Prereq: Successful completion of all opticianry program courses with a minimum GPA of 2.0.

OPH 188 (3)
Work Experience
Cooperative Education is an academic program that integrates the student’s educational experience with supervised work, intern, or volunteer experience. OPH 188 is the second course in which students apply knowledge and further develop skills in the workplace. Students earn academic credit towards their degree in opticianry. Prereq: Successful completion of all opticianry program courses with a minimum GPA of 2.0.
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<th>Course Code</th>
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<td>Work Experience</td>
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<td>OPH 197</td>
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<td>Ophthalmic Dispensing/Work Experience</td>
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<td>OPH 198</td>
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<td>OPH 199</td>
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<td>Ophthalmic Dispensing</td>
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<td>OPH 203</td>
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<td>OPH 204</td>
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<td>OPH 205</td>
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<td>OPH 211</td>
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<td>OPH 226</td>
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<td>Ophthalmic Dispensing Business I</td>
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<td>Ophthalmic Dispensing Business V</td>
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</table>

**Course Descriptions**

**Work Experience**
Cooperative Education is an academic program that integrates the student’s educational experience with supervised work, intern, or volunteer experience. OPH 189 is the third course in which students apply knowledge and further develop skills in the workplace. Students earn academic credit towards their degree in opticianry. Prereq: Successful completion of all opticianry program courses with a minimum GPA of 2.0.

**Ophthalmic Dispensing/Work Experience**
Earn work experience credit in the field of opticianry. Prereq: Permission.

**Ophthalmic Dispensing**
Allows students to gain work experience directly related to their majors. Integrates classroom study with employment. Prereq: permission.

**Contact Lenses II**
Covers basic fitting techniques of hard and soft lenses. Includes patient instruction and contact lens adjustments. Examines bifocal, scleral and specialty lenses. Prereq: Successful completion of fourth quarter opticianry program courses with a minimum GPA of 2.0.

**Contact Lenses Tech III**
Continuation of OPH 203. Emphasis on available lenses, solutions and accessories; diagnostic and fitting skills; development of biomicroscopy and keratometry skills. Prereq: Successful completion of fifth quarter opticianry program courses with a minimum GPA of 2.0.

**Contact Lens Tech IV**
Continuation of OPH 204. Emphasis on ocular surfaces in interaction with foreign objects, ocular pharmacology and the refractive examination. Prereq: Successful completion of sixth quarter opticianry courses with a minimum GPA of 2.0.

**Finishing II**
Continuation of finishing laboratory skills, with emphasis on multifocal lenses. Includes layout of multi-focal lenses and study of plastic lenses and tinting. Specialty lenses will be discussed as well as atypical frame materials. Prereq: Successful completion of fourth quarter opticianry program courses with a minimum GPA of 2.0.

**Finishing III**
OPH 212 is a continuation of OPH 211. New lens technology and materials will be discussed. This course also includes a review for the American Board of Opticians certification exam. Prereq: Successful completion of fifth quarter opticianry program courses with a minimum GPA of 2.0.

**Benchwork Procedures**
Independent work on projects to develop production skills and workmanship. Students will also enhance skills that are essential to passing the Washington State Boards in Opticianry. Prereq: Successful completion of sixth quarter opticianry program courses with a minimum GPA of 2.0.

**Optical Lab Finishing E & Q I**
Optical Laboratory Finishing Equipment and Techniques II expands upon skills learned in OPH 113 and 123. Students will continue to develop optical laboratory finish work techniques with an emphasis on multifocal lens design. Prereq: Successful completion of fourth quarter opticianry program courses with a minimum GPA of 2.0.

**Optical Lab Finishing Equipment and Techniques V**
Incorporates advanced ophthalmic skills with new technology, critical thinking and problem-solving. Provides the opportunity to pursue professional areas of interest. Prereq: Successful completion of sixth quarter opticianry courses with a minimum GPA of 2.0.

**Ophthalmic Dispensing Business I**
Introduction to business functions, including sales and management. Fully develop salesmanship, business plans and implementation. Prereq: Successful completion of fourth quarter opticianry program courses with a minimum GPA of 2.0.

**Ophthalmic Dispensing Business II**
Intermediate business functions, including sales and management. Continued development of salesmanship, business plans and implementation. Prereq: Successful completion of fifth quarter opticianry program courses with a minimum GPA of 2.0.

**Ophthalmic Dispensing Business III**
Introduce students to new technology critical thinking and problem-solving. Provides the opportunity to pursue professional areas of interest. Prereq: Successful completion of sixth quarter opticianry courses with a minimum GPA of 2.0.
OPH 246  (2)
Ophthalmic Dispensing Business E&T II
This course represents the second year student’s second experience in the learning center known as Campus Optical. The students will staff Campus Optical through a rotation system defined by the instructor assigned to the area during the clinical experience. Prereq: Successful completion of fifth quarter opticianry program courses with a minimum GPA of 2.0.

OPH 247  (2)
Ophthalmic Dispensing Business E&T III
The students will staff Campus Optical through a rotation system. Practicing and improving communication skills with clients and coworkers continues to be an important part of this course. Sales skills learned through experience and didactic sessions throughout 285 and 286 will be fine tuned during this quarter. Prereq: Successful completion of sixth quarter opticianry program courses with a minimum GPA of 2.0.

OPH 285  (2)
Ophthalmic Business I E&T
The students will staff Campus Optical through a rotation system defined by the instructor assigned to the area during the clinical experience. Dispensing skills will be further developed in the retail optical learning center on campus. Prereq: Successful completion of fourth quarter opticianry program courses with a minimum GPA of 2.0.

OPH 286  (2)
Ophthalmic Business II E&T
This course represents the second year student’s second experience in the learning center known as Campus Optical. The students will staff Campus Optical through a rotation system defined by the instructor assigned to the area during the clinical experience. Prereq: Successful completion of fifth quarter opticianry program courses with a minimum GPA of 2.0.

OPH 287  (2)
Ophthalmic Business III E&T
The students will staff Campus Optical through a rotation system. Practicing and improving communication skills with clients and coworkers continues to be an important part of this course. Sales skills learned through experience and didactic sessions throughout 285 and 286 should be fine tuned during this quarter. Prereq: Successful completion of sixth quarter opticianry program courses with a minimum GPA of 2.0.

OPH 295  (1)
Ophthalmic Dispensing Business
Introduction to business functions, including sales and management. Fully develop salesmanship, business plans and implementation. Prereq: Successful completion of fourth quarter opticianry program courses with a minimum GPA of 2.0.

OPH 296  (1)
Ophthalmic Dispensing Business
Intermediate business functions, including sales and management. Continued development of salesmanship, business plans and implementation. Prereq: Successful completion of fifth quarter opticianry program courses with a minimum GPA of 2.0.

OPH 297  (1)
Opticianry Workshops
Incorporate advanced ophthalmic skills with new technology, critical thinking and problem-solving. Provides the opportunity to pursue professional areas of interest. Prereq: Successful completion of sixth quarter opticianry program courses with a minimum GPA of 2.0.

OPH 298  (1)
Comprehensive
As the last course in the program, students apply skills and knowledge acquired throughout the opticianry program. Students identify areas of weakness and work on methods of improvement required for successful completion of the state licensing test and entrance into the opticianry field as a licensed optician. Prereq: Successful completion of sixth quarter opticianry program courses with a minimum GPA of 2.0.

Parent Ed/Senior Ed

Parent-Child Study Laboratory
Students with children birth through 6 years of age enroll in classes according to the age of their child. The students attend the laboratory class one day a week with their child and one evening class each month. Course content focuses on child development, positive guidance, health and safety, living in a diverse society, family issues and other parenting concerns depending on the age of the student’s child.
FAM 181 (1-6)
Star Parenting
Online class. The STAR process (Stop, Think, Act, Review) encourages those who work with children to investigate children’s temperament and development and to focus on long-range goals. Use the child’s current behavior to teach skills/values the adult wants. Guide by avoiding problems, responding to cooperation, acknowledging feelings, setting limits and teaching new skills. May be repeated for credit.

FAM 196 (1-3)
Parent Education: Special Program
This class is for students enrolled in Parent Education/Child Study Laboratory: Special Programs classes. The course format includes lectures, discussions, and laboratory experiences designed to explore current research as it applies to child development. Students also fulfill specific obligations of individual classes. The course enables students to extract and adopt principles applicable to parenting, teaching, and child development.

Philosophy

PHIL 101 (5)
Intro to Philosophy
Introduction to philosophical thought and issues, intellectual systems and writings of the great philosophers. Covers the nature of philosophy, the meaning of knowledge, values, reality and related subjects.

PHIL 102 (5)
Cont. Moral Problems
Covers philosophical consideration of some of the major moral problems of modern society and civilization, such as discrimination, abortion, euthanasia, animal rights, world hunger and homelessness. Examines the issue of what means are justified in trying to bring about social change.

PHIL 160 (5)
Philosophy of Science
Covers the historical development of selected concepts from science and the philosophy of science.

PHIL 210 (5)
Comparative Religion
This course introduces the academic study of religion by using a comparative approach to a variety of religious traditions. We’ll ask: What is religion? We also will explore the ethical, metaphysical, and other philosophical stances found within and between various religions by examining their beliefs, rituals, texts, and practices. Prereq: ENGL 101 eligibility.

PHIL 215 (5)
Introduction to Ethics

PHIL 240 (5)
Liberation Ethics
Examines the morality of liberation, through general theoretical and conceptual analysis, with the focus of inquiry on conceptions of liberty, oppression and justice. Also examines personal identity and individual community/social interaction; social/cultural groups within the United States and North America; and social/cultural groups outside of North America and Western Europe.

PHIL 250 (5)
Feminist Perspectives
Focuses on questions such as the nature of sexism and feminism; ‘sisterhood’ as an empowering, unifying truth or an oppressive, difference-stifling myth; the relationship between sexism and other forms of oppression; and between sex and gender. Is celebrating feminism a uniquely female way of knowing or is it being morally judgmental, sexist or feminist? Prereq: Eligibility for ENGL 101.

PHIL 255 (5)
Marxist Philosophy Exam
Examines Marxist philosophy: What is the nature of capitalism? What is exploitation? What are some Marxist criticisms of capitalism? Does Marxism clarify or distort the phenomenon of racism? What reasons, if any, are there why lesbians, gays, or bisexuals should support Marxism? Is Marxism Eurocentric? Can a person consistently support both Marxism and feminism? Must a Marxist be opposed to religion? What is political freedom? Prereq: Eligibility for ENGL 101.

PHIL 267 (5)
Philosophy of Religion
Explores major issues of religion, including the nature of religious experience, the idea of the holy, God and gods, the problem of evil, the quest for transcendence, the question of authentic and unauthentic religious forms, religious relativism, mysticism and the contemplative life.

PHIL 298 (1-5)
Independent Study In Philosophy
Independent study in selected philosophical topics under faculty supervision. Prereq: Permission.

PHIL 299 (1-5)
Seminar in Philosophy
Examines great philosophical questions and philosophers by instructor and student agreement.

Photography

PHO 110 (3.5)
Survey Photography
Explores the varied career paths found in professional photography. Emphasis is placed on the creative styles and trends in image making, from the first Daguerreotypes to the HDSLR storytellers of today. Entry-level issues such as working conditions, time management, organizational strategies and professional ethics will also be examined. Prereq: Permission.

PHO 111 (3.5)
Digital Capture Technology
Addresses the terminology and ethics of capturing digital images. Covers the functions and operation of HDSLR cameras. Introduces techniques for determining optimum exposures and basic compositional aesthetics. Includes development of an organized file management system utilizing Adobe Lightroom and parametric editing in Capture One. Prereq: Permission.
PHO 112  (3.5)  
Light Tech I  
Covers the basic methods of commercial lighting; the laws, principles, and practices of light; the qualities of direct/indirect sunlight and tungsten light sources; lighting for form, texture. Introduces standards for the safe operation of lighting equipment in a studio environment. Prereq: Permission.

PHO 113  (3.5)  
Audio Production  
Covers sound theory and the best practices for sound recording and audio editing to develop skills as effective audio storytellers. Includes use of various microphones and audio recorders to effectively record sound or voice on location and in a controlled environment. Introduces use of Adobe Audition and Premiere to layer sounds to create audio narratives. Includes development of skills to become more critical in hearing sound. Prereq: Permission.

PHO 120  (3.5)  
Concept Development  
Introduces visual conceptualization skills required in commercial photography. Includes attention to techniques and processes that support creative and aesthetic development. Explores approaches to critique and the art market. Fosters creativity and aesthetic development. Prereq: Successful completion of first quarter commercial photography program courses with a minimum grade of 2.0 in each course.

PHO 121  (3.5)  
Digital Image I  
Covers the creative and technical requirements of digital image optimization using Adobe Photoshop Creative Cloud. Includes interface navigation, tools, layers and filters, creation and manipulation of image selections, adjustments of color and contrast, use of retouching, masking, cropping, and basic image compositing, and the export of images for print and web. Prereq: Successful completion of first quarter commercial photography program courses with a minimum grade of 2.0 in each course.

PHO 122  (3.5)  
Lighting Techniques II  
Covers studio techniques for lighting people. Addresses safe operation of studio equipment for portrait lighting set-ups. Introduces three-dimensional contrast in a traditional portrait studio setting. Includes subject rapport, subject posing and development of a theme-based narrative using advanced lighting techniques while demonstrating set construction skills. Prereq: Successful completion of first quarter commercial photography program courses with a minimum grade of 2.0 in each course.

PHO 123  (3.5)  
Video Production I  
Introduces basic video capture techniques including HDSLR camera operation. Includes an overview of Adobe Premiere's interface, tools, features, and a basic production workflow. Covers working in production teams, environmental aesthetics, establishing a point of view, capturing the decisive moments in short clips, and assembling final video in the editing process. Prereq: Successful completion of first quarter commercial photography program courses with a minimum grade of 2.0 in each course.

PHO 131  (3)  
Darkroom Techniques I  
Intro to digital darkroom procedures and file processing, including white point, tone curves, hue, saturation and luminance. Create a file management system using Adobe Lightroom. Experiment with printing papers, finishing and presentation techniques. Learn folder hierarchy, metadata, copyright and database file management.

PHO 132  (3)  
Darkroom Techniques II  
Explore digital darkroom procedures and digital file processing using advanced techniques in Lightroom. Learn redundant data protection systems, global and selective image manipulation, and integration solutions with assorted image manipulation software. Learn to see color and produce accurate color output.

PHO 133  (3)  
Retail Photography  
Learn advanced retail portrait and wedding photography techniques; seeing and using available light; using on-camera strobe units; choosing pleasing poses and flattering lighting; sequencing photos to tell a wedding story; and adding words and music to increase emotional and saleable impact. Includes retail sales materials, presentations and pricing strategies.

PHO 141  (3)  
Survey of Photography  
Examines the multiple opportunities and challenges of professional photography as a career. Covers technical history from Daguerreotypes to HDSLR story tellers, and master photographers of many styles. Additional emphasis on business practices: working conditions; time management; organizational strategies; and professional ethics.

PHO 142  (4)  
Digital Imaging  
Intro to Photoshop software for creating and manipulating bitmapped graphics. Develop non-destructive, image-editing workflows for digital image processing and enhancement, color management, image selection, compositing, burning, dodging, retouching, tonal or color correction and modification. Adapt print resolution, size and format for print, video and web.

PHO 143  (3)  
Digital Media Production  
Learn multimedia storytelling, narrative forms and techniques. Develop a better understanding of using images and audio to advocate, communicate or address a specific subject or issue.

PHO 197  (1-5)  
Work Experience/Photography  
Earn work experience credit in the photographic field. Contact the Photography program for details.

PHO 214  (4)  
Catalogue Production  
Create professional quality images for a multiple-page catalog layout, by producing a mini-catalog using traditional and digital photographic techniques. Explore personal photographic style. Collaborate on advertising assignments.

PHO 215  (4)  
Advertising Production  
Working with a local, community-based nonprofit organization, develop and produce an advertising campaign. Learn all aspects of advertising production, including business components such as negotiating fees and expenses. Present completed campaigns to a panel of industry professionals.

PHO 224  (4)  
Communication Production  
Intro to shooting motion/video with a DSLR camera. Research, plan, direct and produce a completed video project. Learn techniques for writing treatments, scripts and storyboards. Covers video shooting techniques and use of video production equipment.
PHO 225 (3)  
Conceptual Development  
Intro to visual conceptualization skills, elements and principles of 2-D design. Study techniques and processes that support creativity and aesthetic development. Explore the critique process. Focus on developing individual creativity and photographic style.

PHO 234 (3)  
Professional Business Practices I  
Intro to small business development and management for the professional photographer. Learn to write a business plan for commercial or retail markets. Covers retirement planning, insurance, taxes, copyrighting, budgeting, accounting, estimating, pricing and negotiating. Follow an assignment from first phone call to invoice. Acquire business licenses and join professional organization(s).

PHO 235 (3)  
Professional Business Practices II  
Focuses on marketing practices. Write and implement a marketing plan, create self-promotion materials for mail, web, social media and in-person presentations. Present final marketing plan to industry professionals for critique.

PHO 244 (3)  
Visual Narrative  
Learn to use industry standard video editing software for post-production, non-linear editing of digital video. Covers basic digital video and audio editing workflows. Learn to support a narrative by incorporating continuity and logical sequencing of both video and audio clips.

PHO 245 (3)  
New Media  
Broaden understanding of image editing techniques including advanced retouching, layering, masking and color adjustments for basic web design. Learn to use templates to build sites. Create and publish online a basic website using image editing and design software.

PHO 254 (4)  
Portfolio I  
Intro to the processes of creating a professional-level portfolio as a marketing and job search tool. Includes various presentation methods, including electronic portfolios. Create marketing materials: business card, stationery and self-promotion pieces.

PHO 255 (4)  
Portfolio II  
Continuation of PHO 254. Produce portfolio-quality images and computer-generated portfolio pages. Investigate traditional and electronic alternatives for portfolios. Create a résumé and an information page for a website. Meet with industry professionals to discuss tools needed after graduation.

PHO 256 (4)  
Portfolio III  
Assemble a final portfolio of images that represents the student’s creative voice and professional direction, for presentation to multiple clients, representatives and agencies. Continue learning about production stages of multiple, complex location shoots.

PHO 266 (3)  
New Media Workshop  
Edit, sequence and prepare images for the website project from previous quarter. Finalize the website and all promotional materials. Complete a printed portfolio. Create a shot list and shot plan for the week-long Port Townsend Portfolio Shoot-out.

PHO 276 (3)  
Portfolio Workshop  
Prepare materials for the annual Portfolio Show. Design individual show stations and work with committees to plan the two-day event. Work with faculty to edit and select images. Meet with industry professionals in one-on-one interviews and portfolio reviews.

PHO 286 (3)  
Special Projects  
Focus on career entry and development by studying various projects such as employment strategies, technological innovations and global marketplace opportunities. Seek critical feedback on portfolios from professionals and develop professional relationships.

PHO 287 (3)  
Studio  
Learn advanced techniques and principles of Goju Ryu Karate-do including fundamentals of stances, blocks, strikes, kicks, movement and offensive and defensive strategies.

PEC 105 (2)  
Intermediate Martial Art  
For individuals at intermediate skill level. Adjust to the type of self-discipline and interaction required in the Goju Ryu Karate. Prereq: PEC 104, or formal rank up to and including green belt.

PEC 106 (2)  
Advanced Martial Arts  
For advanced skill levels. Foster self-improvement and appreciation of Karate as an art, sport, physical conditioning and self-defense tool. Prereq: Intermediate skills, successful completion of PEC 105 or formal rank of brown belt or higher.

PEC 109 (2)  
Slambastics, Co-Ed  
Exercise course adapted to individual needs for body muscle toning and weight control.

PEC 110 (2)  
Cardio-Fitness  
Improve cardio-respiratory fitness through rhythmic, dynamic, large-muscle exercise performed to music. Workouts consist of warm-up, workout, cool-down, strengthening and flexibility. Current fitness-related issues, trends and topics included.

PEC 111 (2)  
Beginning Swimming  
Swimmers of all abilities are taught to improve their swimming strokes according to Red Cross Standards, and to improve their fitness levels.

PEC 112 (2)  
Intermediate Swimming  
Skills and techniques of swimming. Prereq: Beginning Swimming.

PEC 113 (2)  
Beginning Badminton  
Intro to basic skills of badminton: clears, serves and drives. Covers rules of play and basic singles and doubles strategies. Opportunity for game play and tournament play.

PEC 114 (2)  
Beginning Tennis, Co-Ed  
Intro to the rules, history, techniques, skills and strategies of tennis. Reinforce and apply learning through game play and competition.

PEC 115 (2)  
Beginning Volleyball  
Learn basic volleyball skills: forearm and overhead passing, serving and spiking. Includes basic offensive and defensive strategies for 6-on-6 team play. Opportunities for modified game play and tournament play.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEC 118</td>
<td>Intermediate Tennis, Co-Ed</td>
<td>Provides the opportunity to practice the proper techniques and strategies associated with tennis and focus on advanced technical skills.</td>
</tr>
<tr>
<td>PEC 121</td>
<td>Handball</td>
<td>Development of basic ballroom dancing skills. Dance styles include the waltz, rhumba, cha cha, samba, foxtrot and swing.</td>
</tr>
<tr>
<td>PEC 129</td>
<td>Intermediate Volleyball</td>
<td>Covers intermediate level attacking, passing and serving techniques and multiple offensive systems and defensive pattern practice. Assumes basic volleyball skills. Prereq: PEC 115 or permission.</td>
</tr>
<tr>
<td>PEC 130</td>
<td>Beginning Basketball</td>
<td>Covers basic individual skills of dribbling, passing and shooting, team skills and strategies. Includes in-class drills, modified game play, structured scrimmage and tournament play.</td>
</tr>
<tr>
<td>PEC 131</td>
<td>Beginning Weight Training</td>
<td>Using a variety of resistance equipment, includes both individualized and instructor-driven programs: super-set, pyramid and circuit training. Includes safety, nutrition, supplementation, muscle anatomy and physiology and psychology.</td>
</tr>
<tr>
<td>PEC 132</td>
<td>Intermediate Weight Training</td>
<td>Continuation of PEC 131. Includes both individualized and instructor-driven intermediate programs. Prereq: Prior experience and a working knowledge of weight training.</td>
</tr>
<tr>
<td>PEC 136</td>
<td>Yoga</td>
<td>Covers postures or asanas, breathing, meditation exercises for physical and mental fitness. Presents yoga as a philosophy and an art form, introducing a number of poses with their purposes.</td>
</tr>
<tr>
<td>PEC 137</td>
<td>Yoga II</td>
<td>Builds on PEC 136 with stronger asana/postures and further discussion of Yoga principles and philosophy. Prereq: PEC 136 or permission.</td>
</tr>
<tr>
<td>PEC 143</td>
<td>Walking for Fitness</td>
<td>Develops cardio-respiratory fitness through progressive workouts including warm-ups, walking sessions and cool-downs. Covers safety, walking technique and issues and trends related to walking and physical fitness.</td>
</tr>
<tr>
<td>PEC 145</td>
<td>Jogging</td>
<td>Develops cardio-respiratory fitness through progressive workouts including warm-ups, walking sessions and cool-downs. Covers safety, jogging technique and issues and trends in jogging and physical fitness.</td>
</tr>
<tr>
<td>PEC 150</td>
<td>Physical Fitness</td>
<td>Instruction in developing, executing and maintaining individualized fitness programs. Emphasis on cardio-respiratory fitness, muscular strength and endurance and flexibility. Includes fitness, nutrition and wellness.</td>
</tr>
<tr>
<td>PEC 151</td>
<td>Physical Fitness</td>
<td>Instruction in manipulating existing individualized fitness programs to meet personal goals, emphasizing health-related fitness. Includes fitness, nutrition and wellness.</td>
</tr>
<tr>
<td>PEC 155</td>
<td>First Aid &amp; Personal Safety</td>
<td>American Heart Association Heartsaver First Aid CPR AED certification (adult, child, infant). Basic Life Support (BLS) for Healthcare Providers certification is available as an option. Provides instruction in advanced rescue skills including two-person CPR, pocket mask, and bag-valve-mask.</td>
</tr>
<tr>
<td>PEC 160</td>
<td>Step Aerobics</td>
<td>Development of cardio-respiratory and musculoskeletal fitness by incorporating choreographed, rhythmic movements performed on a bench or step. Discussions include current fitness-related issues and trends.</td>
</tr>
<tr>
<td>PEC 165</td>
<td>Body Conditioning</td>
<td>An activity-based class incorporating the fundamentals of cardiovascular fitness, strength training, and flexibility. Improves physical fitness with the use of weights, resistance bands, aerobic exercises. Lectures will include information on a variety of wellness topics. Required practice of different exercise modalities outside of class meetings.</td>
</tr>
<tr>
<td>PEC 170</td>
<td>Intro to Jazz Dance</td>
<td>Covers fundamentals of dance technique while improving strength, flexibility and anaerobic capacity. Builds postural awareness and develops motor skills through jazz style, which borrows from ballet and contemporary street dance. Includes safety, injury prevention, spinal health and nutrition.</td>
</tr>
<tr>
<td>PEC 172</td>
<td>Intro to Salsa &amp; Latin Dance</td>
<td>Students learn dance posture, rhythm, and the techniques of leading and following for four styles of dance from Latin America, including Salsa. The class includes an introduction to Latin music theory and emphasizes the rich history and culture that surrounds these dances. No partner necessary.</td>
</tr>
<tr>
<td>PEC 173</td>
<td>Intro to Swing</td>
<td>Students learn dance posture, rhythm, and the techniques of leading and following for four styles of dance from the United States, including East Coast Swing, Lindy Hop, Charleston, and Shim Sham jazz steps. This class includes an introduction to Jazz music and emphasizes the rich history and culture that surrounds these dances. No partner necessary.</td>
</tr>
<tr>
<td>PEC 175</td>
<td>Ballet Basics</td>
<td>Covers fundamentals of ballet style. Stresses proper technique and body mechanics to avoid dance-related injury. Emphasis on flexibility and strength, focusing on basic movements (plie, tendu, développé and battement), joint stability and range of motion. Includes kinesthetic memory, basic nutrition, rest and the application of ballet to other dance and movement styles.</td>
</tr>
<tr>
<td>PEC 181</td>
<td>Wellness Management</td>
<td>Covers the fundamentals of a complete wellness program. Principles of fitness, healthy eating, stress management, goal setting, positive lifestyle choices, and application of these components. Includes physical activity, self-monitoring, on-line and in-person lecture, and group interaction. Class requires participation online and in-person, on-campus.</td>
</tr>
<tr>
<td>PEC 298</td>
<td>Special Topics</td>
<td>Seminar on selected topics and/or activities in physical education. Prereq: Variable, depends on topic.</td>
</tr>
</tbody>
</table>
PEC 299  (1-5)
Independent Study
Independent study of approved topics in physical education. Prereq: Permission.

Physics

PHYS& 100  (5)
Physics Non-Science Majors
Basic laws of physics, such as motion, sound, gravitation, energy, heat and temperature, electricity and magnetism, light, relativity, quantum theory, and nuclear physics. For non-majors. Non-lab course. Prereq: Eligibility for MATH 084, 087, or 091 (C).

PHYS 114  (5)
General Physics I with Lab
First of three algebra-based courses covering the field of physics. Includes kinematics, vectors, forces, dynamics, work, energy, momentum, torque and gravitation. Lab included. Prereq: Completion of MATH 098 with a 2.5 or better (C).

PHYS 115  (5)
General Physics II with Lab
Continuation of PHYS 114. Includes fluids, heat, gas laws, electricity, magnetism and electrical circuits. Lab included. Prereq: PHYS 114 (with 2.0 or higher) or permission.

PHYS 116  (5)
General Physics III with Lab
Continuation of PHYS 115. Covers electromagnetic waves, optics, atomic and nuclear physics. Lab included. Prereq: PHYS 114 (with 2.0 or higher) or permission (N); PHYS 115 or permission (C,S).

PHYS 198  (5)
Physics Workshop
A problem-solving workshop approach to physics topics considered appropriate by the instructor and/or physics faculty. Prereq: Permission.

PHYS 221  (5)
Engineering Physics I
Calculus-based study of kinematics, Newton’s Laws of Motion, dynamics, energy, and momentum in linear and rotational coordinates. Lab included. Prereq: MATH 151 with a 2.0 or higher.

PHYS& 222  (5)
Engineering Physics II
Covers Maxwell’s classical laws of electricity and magnetism which developed from the study of the Laws of Coulomb, Ampere, Gauss and Faraday. Lab included. Prereq: PHYS& 221 and MATH& 152.

PHYS& 223  (5)
Engineering Physics III
Intro to waves and oscillations and the study of sound, geometric and physical optics. Covers the dualistic particle-wave nature of microscopic phenomena as an intro to modern physics. Lab included. Prereq: MATH& 152, PHYS& 222 (N,S); MATH& 152 with 2.0 or higher, PHYS& 222 (C).

PHYS 298  (1-5)
Special Topics
Independent work in physics laboratory and/or library. Prereq: Permission.

PHYS 299  (1-5)
Independent Study
Independent study of physics problems or topics. Prereq: Permission.

Political Science

POL& 101  (5)
Intro Political Science
Explores the origin and development of the study of political science. Examines the origins of government systems, political theory, comparative systems, political socialization, public administration, political parties and elections, technology, political economy, globalization, and international relations. Foundation course for political science studies.

POL& 202  (5)
American Government
Survey of the origin and functions of the U.S. government. Examines the Articles of Confederation, the Constitution, and the creation of the federal system. Analyzes the functions of Congress, the Presidency and Courts. Topics include political socialization, ideology, interest groups, political parties, and elections.

POL& 203  (5)
International Relations
Introduction to international relations and governmental organizations. Examines major issues in the international arena including nationalism, national sovereignty, globalization, international law, economics, security, environmentalism and foreign policy. Emphasis on issues that foster or frustrate world peace and prosperity. Transfer class.

POL 205  (5)
Political Economy
Study of basic economic terms and concepts, by surveying various nations and regions politically and economically. Study how nations and regions economically compete with one another. Includes study of human and non-human resources, the international monetary system, government business activity, development and international law.

POL 213  (5)
Women and Politics
Intro to concepts of power and policy issues as they relate to women. Covers theoretical, historical and empirical studies of women’s participation in social and political movements nationally and internationally. Studies women’s diverse roles in relation to family, economics, labor, government and law.

POL 255  (5)
Government & Politics of Middle East
Problems of traditional society versus construction of a modern state. Emphasis on Arab-Israeli relations and impact on international affairs.

POL 298  (1-5)
Independent Study in Political Science
Independent research and writing on selected political science topics under faculty supervision. Prereq: Permission.

PSYC& 100  (5)
General Psychology
Intro to the scientific study of human behavior, including learning and thinking, development, perception, motivation, emotion, personality and individual differences, social and abnormal behavior, and research methods.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 120</td>
<td>Psychology of Adjustment</td>
<td>Covers the study of personality within the framework of the social system and the application of proven psychological principles to problems of adjustment and conflict faced in daily living.</td>
</tr>
<tr>
<td>PSYC 207</td>
<td>Developmental Psychology</td>
<td>Analysis of psychological development of the child in relation to biological, physical and sociological antecedent conditions from conception through adolescence. Prereq: PSYC 100 or permission.</td>
</tr>
<tr>
<td>PSYC 209</td>
<td>Fundamentals of Psychological Research</td>
<td>Examines the scientific method, hypothesis testing and designs of qualitative and quantitative research. Covers the search and evaluation of research literature in psychology, descriptive statistical analysis, fundamental beliefs about scientific writing, ethical issues and cross-cultural considerations in psychological research. Includes a research project. Prereq: PSYC 100 or equivalent.</td>
</tr>
<tr>
<td>PSYC 210</td>
<td>Personality &amp; Individual Differences</td>
<td>Intro to the study of personality and individual differences, including theory, measurement and research. Application of psychological principles to problems of everyday living.</td>
</tr>
<tr>
<td>PSYC 220</td>
<td>Abnormal Psychology</td>
<td>Intro to theories of psychopathology and behavioral changes associated with abnormal behavior. Emphasizes ethical issues of diagnosis and treatment and major diagnostic categories such as schizophrenia, depression and anxiety disorders, and disorders of childhood and old age.</td>
</tr>
<tr>
<td>PSYC 222</td>
<td>Survey of Physiological Psychology</td>
<td>Covers workings of the nervous system. Explores the brain's capacity in language, hunger and thirst, learning and memory, emotions, sexual behavior, depression, schizophrenia and repair after injury. Recommended: PSYC 100 or a biological science course.</td>
</tr>
<tr>
<td>PSYC 230</td>
<td>Human Sexuality</td>
<td>Survey of current literature on development of sexual behavior. Includes historical, physiological, psychological and social components of sexuality and its deviations. May be taken as SOC 230.</td>
</tr>
<tr>
<td>PSYC 245</td>
<td>Social Psychology</td>
<td>Examines the effect of others on self-concept, social cognition, aggression, conformity, helping, loving and liking, competition and cooperation, and prejudice and discrimination. May be taken as SOC 245.</td>
</tr>
<tr>
<td>PSYC 250</td>
<td>Psychology of African Americans</td>
<td>Provides an in-depth look at contemporary psychological research and issues involving African Americans. Includes Black personality, institutional racism and the educational system, counseling African Americans and methods of dealing with racism in daily life.</td>
</tr>
<tr>
<td>PSYC 257</td>
<td>Psychology of Gender</td>
<td>Explores major psychological theories of sex differences. Examines studies of sex-role development and biological and environmental influences that may determine and maintain sex differences in aggression, cognitive abilities, achievement, motivation, affiliation and sexuality. May be taken as WMN 257.</td>
</tr>
<tr>
<td>PSYC 260</td>
<td>Psychology of Racism</td>
<td>Overview of theories and research concerning factors and contexts that contribute to racial/ethnic discrimination in the U.S. and the multilevel consequences for minority groups and the broader U.S. society. Covers socioeconomic, political, and historical structures and their consequences on racial/ethnic identity. Emphasizes how multiculturalism can have a positive impact and provide a safe space for discussion.</td>
</tr>
<tr>
<td>RCP 101</td>
<td>Intro to Respiratory Care</td>
<td>Intro to concepts and principles of the Respiratory Care program. Emphasizes preparation for school, college resources, financial assistance, classroom, study and communication skills, strategies for taking exams, time management, stress and anger management.</td>
</tr>
<tr>
<td>RCP 110</td>
<td>Respiratory Care Orientation</td>
<td>Explodes the respiratory care profession. Focuses on historical development as well as current overview of the respiratory care practitioner role. Emphasis on professionalism, ethical thought, death and dying, and working in a multicultural environment.</td>
</tr>
<tr>
<td>RCP 112</td>
<td>Applied Microbiology</td>
<td>Focus on microbiology in respiratory disease, including the history of microbiology, cell structure and relationships between humans and microbes. Covers microorganisms, differentiation of microorganisms, factors in disease and resistance, infection control and therapeutics for infectious processes in respiratory care.</td>
</tr>
<tr>
<td>RCP 114</td>
<td>Respiratory Care Fundamentals I</td>
<td>Intro to procedures used to assess and treat common respiratory diseases. Emphasis on skills needed to safely and effectively work in the hospital environment and to assess patients with cardiopulmonary disease. Covers hospital safety, gas physics, medical gas and aerosol therapy, bronchial hygiene and hyperinflation therapies.</td>
</tr>
<tr>
<td>RCP 115</td>
<td>Pharmacology I</td>
<td>Intro to the principals and practices of Respiratory Care Pharmacology with emphasis on the safe delivery of medications. Explores the basic concepts of pharmacology, aerosol delivery, dosing calculations and bronchodilator therapies for treatment.</td>
</tr>
</tbody>
</table>
Course Descriptions

RCP 117 (4) Cardiopulmonary Anatomy & Physiology
Provides an in-depth investigation into the structure and function of the cardiopulmonary and related body systems, emphasizing the interdependence of the body systems, including pulmonary, cardiac, vascular, renal systems. Covers the effects of aging, exercise and extreme environments on the cardiopulmonary system.

RCP 120 (4) Clinical Practice I
Respiratory care practicum. Continues the development of skills in real clinical situations at partner facilities around the Puget Sound area. Emphasis on hospital safety, patient assessment, and the application of therapeutic procedures.

RCP 123 (1) Pathophysiology I
Study of the concepts and principles by which disease alters the normal function of the cardiopulmonary system. Emphasizes recognizing obstructive diseases, recommending and applying therapeutic measures and analyzing clinical data and responses to treatment.

RCP 124 (5) Respiratory Care Fundamentals II
Continuation of RCP 114. Emphasis on skills to safely and effectively care for patients with artificial airways. Covers artificial airways, bedside diagnostic testing, arterial blood gas analysis and non-invasive ventilation.

RCP 125 (1) Pharmacology II
Continuation of RCP 115. Emphasis on medications used to treat primary respiratory disorders such as asthma. Covers steroid and non-steroidal asthma controllers, xanthine medications, mucus controlling drugs and aerosolized anti-infective medications.

RCP 130 (5) Clinical Practice II
Respiratory care practicum. Continues the development of skills in real clinical situations at partner facilities around the Puget Sound area. Emphasis on more advanced techniques and diagnostics in acute care.

RCP 132 (3) Cardiopulmonary Pharmacology
Basic concepts and knowledge necessary for safe administration of drugs used in the practice of respiratory care. Emphasis is on pharmacy as a science, and prescriptions commonly used in critical care settings are included.

RCP 133 (1) Pathophysiology II
Continuation of RCP 123. Study of concepts and principles by which disease alters the normal function of the cardiopulmonary system. Emphasis on recognizing respiratory failure and infectious diseases, recommending and applying therapeutic measures and analyzing clinical data and responses to treatment.

RCP 134 (5) Respiratory Care Fundamentals III
Continuation of RCP 124. Emphasis on mechanical ventilation of the critically ill adult. Covers the physiology, application, monitoring and discontinuation of mechanical ventilation, as well as alternative strategies for mechanical ventilation.

RCP 135 (1) Pharmacology III
Continuation of RCP 125. Emphasizes pharmacologic agents used to facilitate mechanical ventilation in the critical care setting. Covers skeletal muscle relaxants, sedatives, analgesics, diuretics and antibiotics.

RCP 137 (4) Cardiopulmonary Anatomy & Physiology
Provides an in-depth investigation into the structure and function of the cardiopulmonary and related body systems, emphasizing the interdependence of the body systems, including pulmonary, cardiac, vascular, renal systems. Covers the effects of aging, exercise and extreme environments on the cardiopulmonary system.

RCP 139 (2) Skills Review III
Required for students returning to the program and requesting advanced standing. High motivation level required. Combines independent study and lab demonstrations. Course not required for program degree.

RCP 196 (5) Work Experience: Respiratory Care
Earn work experience credit in the respiratory care field. Prereq: Permission.

RCP 197 (1-5) Work Experience: Respiratory Care
Allows students to earn work experience credit in the respiratory care field. Prereq: Permission.

RCP 198 (1-5) Work Experience: Respiratory Care
Allows students to earn work experience credit in the respiratory care field. Prereq: Permission.

RCP 199 (1-5) Work Experience: Respiratory Care
Allows students to earn work experience credit in the respiratory care field. Prereq: Permission.

RCP 200 (4) Clinical Practice III
Respiratory care practicum. Continues the development of skills with emphasis on respiratory care in the intensive care setting. Apply skills in real clinical situations at partner facilities around Puget Sound area.

RCP 240 (4) Clinical Practice III
Respiratory care practicum. Continues the development of skills with emphasis on respiratory care in the intensive care setting. Apply skills in real clinical situations at partner facilities around Puget Sound area.

RCP 241 (2) Respiratory Care for Critically Ill

RCP 243 (1) Pathophysiology III
Continuation of RCP 133. Study of concepts and principles by which disease alters the normal function of the cardiopulmonary system with emphasis on the pathophysiology of critical illness.

RCP 244 (3) Respiratory Care Fundamentals IV
Continuation of RCP 134. Emphasis on intensive care monitoring techniques. Covers electrocardiogram interpretation, hemodynamic monitoring, and advanced cardiac life support.

RCP 245 (1) Pharmacology IV
Continuation of RCP 135. Emphasis on drugs used to treat the cardiac system as well as medications used in pediatric/neonatal respiratory care. Covers antihypertensive, medications to treat shock, antiarrhythmics, surfactant, nitric oxide and other medications used in critical care.
RCP 250 (6)  
Clinical Practice IV  
Respiratory care practicum. Continues the development of skills in the intensive care and emergency settings. Apply skills in real clinical situations at partner facilities around the Puget Sound area.

RCP 251 (2)  
Respiratory Care  
For Infants & An in-depth study of neonatal and pediatric respiratory care. Focuses on diseases specific to caring for our smallest patients. Covers fetal growth and development, labor and delivery, resuscitation, disease processes, assessment and therapy.

RCP 253 (1)  
Pathophysiology IV  
A continuation of RCP 243. Study of concepts and principles by which disease alters the normal function of the cardiopulmonary system with emphasis on the pathophysiology of cardiovascular, neuromuscular, fibrotic diseases and sleep-disordered breathing.

RCP 254 (5)  
Respiratory Care Fundamentals V  
Continuation of RCP 244. Emphasis on advanced concepts and skills needed to care for neonatal and pediatric patients. Covers techniques and equipment to manage neonatal and pediatric patients in the acute care environment, including oxygen therapy, bronchial hygiene, airway care, Continuous Positive Airway Pressure and mechanical ventilation.

RCP 260 (6)  
Clinical Practice V  
Respiratory care practicum. Continues the development of skills with pediatric or adult critical care patients. Apply skills in real clinical situations at partner facilities around the Puget Sound area.

RCP 262 (1)  
Entry Level Exam Review  
Survey of material on the National Board for Respiratory Care’s (NBRC) Certified Respiratory Therapist (CRT) exam. Emphasis on test taking and exam content.

RCP 264 (3)  
Respiratory Care Fundamentals VI  
Continuation of RCP 254 exploring the equipment and techniques of respiratory care. Emphasis on Cardiopulmonary diagnostic studies. Covers pulmonary function testing, exercise physiology and testing, bronchoscopy and polysomnography.

RCP 266 (2)  
Pulmonary Rehab & Home Care  
Introduction to the concepts, knowledge, and procedures specific to the respiratory care of adults and children with chronic cardiopulmonary disorders. Emphasis on patient education. Prereq: Completion of RCP 110 - RCP 254 and concurrent enrollment in RCP 260, RCP 261, RCP 264, RCP 298.

RCP 267 (2)  
Advanced Mechanical Ventilation  
In-depth exploration of the application of mechanical ventilation across the age spectrum. Emphasis on the clinical application of mechanical ventilators and advanced modes of mechanical ventilation.

RCP 270 (6)  
Clinical Practice VI  
Respiratory care practicum. Continues the development of skills with pediatric or adult critical care patients. Apply skills in real clinical situations at partner facilities around the Puget Sound area.

RCP 272 (4)  
Comp. Review Respiratory Care  
Survey of material on the National Board for Respiratory Care Advanced Practitioner exam, NBRC Written Registered Respiratory Therapist exam (WRRT).

RCP 274 (2)  
Pulmonary Rehab & Homesc  

RCP 276 (3)  
Advanced Patient Assessment  
Develop further critical thinking skills for assessing patients through history, physical examination, lab data, chest x-rays, pulmonary function tests and EKG data. Use clinical reasoning skills to develop and implement plans of care for the cardiopulmonary patients presented and discuss equipment, modifying treatment and evaluating patient progress. Practice with the National Board for Respiratory Care’s (NBRC) Clinical Simulation Exam.

RCP 299 (1-3)  
Independent Study in Respiratory Care  
Independent study in selected respiratory care topics under the supervision of the program director. Topics coincide with the quarter's curriculum.

RCP 320 (4)  
Clinical I  
Covers direct application of respiratory care skills in the hospital setting. Focuses on skills for respiratory care practice in acute care. Students treat patients using basic respiratory care techniques and perform physical assessments, chart review, hand washing, and bronchial hygiene techniques. Builds on respiratory care knowledge and skills established in the classroom, lab and clinical setting. Prereq: Successful completion of courses from 1st quarter with a minimum GPA of 2.0.

RCP 323 (2)  
Pathophysiology for Respiratory Care  
Encompasses a study of the concepts and principles by which disease alters the normal function of the cardiopulmonary system. Emphasis will be on development of the respiratory care plan in the context of Respiratory Failure, Asthma, Chronic Obstructive Pulmonary Disease, Cystic Fibrosis, Postoperative Atelectasis, Interstitial Lung Disease, Neuromuscular disease, Bacterial Pneumonia, Tuberculosis, and Sleep Disordered Breathing. Prereq: Completion of 1st quarter courses with minimum GPA of 2.0.

RCP 328 (4)  
Advanced Therapeutic Approaches  
The second course in the therapeutic approaches series, this course builds upon concepts, knowledge, and skills acquired in AHE 218. Emphasis is on the knowledge and skills necessary to safely and effectively provide artificial airway care, Arterial Blood Gas (ABG) drawing and analysis, bedside monitoring techniques and non-invasive positive pressure ventilation. Prereq: Completion of 1st quarter Respiratory Care program courses with minimum GPA of 2.0.

RCP 329 (1)  
Advanced Therapeutic Approaches Equipment and Tech  
Covers the application of Respiratory Care therapeutics learned in RCP 328. Learners will apply theory acquired in RCP 328 using models, simulation and laboratory partners for practice. Focuses on the safe and effective application of artificial airway care, Arterial Blood Gas drawing and analysis, bedside monitoring techniques and non-invasive positive pressure ventilation. Prereq: Completion of 1st quarter Respiratory Care program courses with a minimum GPA of 2.0.
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<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>RCP 330</td>
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<td>Acute Care Clinical II</td>
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<td>RCP 338</td>
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<td>RCP 340</td>
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<td>RCP 347</td>
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<td>RCP 348</td>
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<td>RCP 349</td>
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<td>Advanced Ventilation Equipment &amp; Technology</td>
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<td>RCP 450</td>
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<td>Adult Critical Care Clinical II</td>
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<td>RCP 451</td>
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<td>RCP 455</td>
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<td>RCP 458</td>
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<td>RCP 460</td>
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<td>RCP 463</td>
<td>2</td>
<td>Advanced Pathology Respiratory Care</td>
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**Acute Care Clinical II**
Acute Care Clinical II further familiarizes students with hospital-based respiratory care. Students practice direct patient care, treat patients using basic respiratory care techniques, and perform physical assessments. Chart review, hand washing, and bronchial hygiene techniques are emphasized. Students use techniques learned in lab and on-site and build on the foundation of respiratory care knowledge and skills established in the classroom setting.

**Fundamentals of Mechanical Ventilation**
The third course in the Respiratory Care Fundamentals series, this course builds upon concepts, knowledge, and skills acquired in RCP 328. Emphasis will be placed on the knowledge and skills necessary to safely prepare, institute, monitor and modify mechanical ventilation in the care of the critically ill adult patient. Successful completion of 2nd quarter Respiratory Care Program courses with a 2.0 or higher GPA.

**Mechanical Ventilation Equipment and Technology**
Covers the application of Respiratory Care therapeutics learned in RCP 338. Learners will apply theory acquired in RCP 338 using models, simulation and laboratory partners for practice. Focuses on safe and effective application of basic, adult mechanical ventilation. Prereq: Successful completion of 2nd quarter Respiratory Care Program courses with a 2.0 or higher GPA.

**Adult Critical Care Clinical I**
RCP 340 is the third course in the Respiratory Care clinical series. Emphasis will be placed on integrating respiratory theory knowledge with skills performance by providing the student therapist with the opportunity to practice direct patient care. The learner will be assigned to the Critical Care Unit and will perform the duties associated with the management of the critically ill patient on mechanical ventilation.

**Cardiology for Respiratory Care**
Emphasis will be placed on the integration of hemodynamic measurements in the care of the critically ill patient. Various clinical applications and critical care monitoring will be covered in depth. Further emphasis will be placed on the principles of Advanced Cardiac Life Support (ACLS) and the interpretation of electrocardiogram (ECG) data.

**Advanced Mechanical Ventilation**
In-depth exploration of the application of mechanical ventilation across the age spectrum. Emphasis on the clinical application of mechanical ventilators and advanced modes of mechanical ventilation. Prereq: Successful completion of 2nd quarter B.A.S. Respiratory Care Program courses with a 2.0 or higher GPA.

**Advanced Ventilation Equipment & Technology**
Covers the application of Respiratory Care therapeutics learned in RCP 348. Learners will apply theory acquired in RCP 348 using models, simulation and laboratory partners for practice. Focuses on safe and effective application of advance mechanical ventilation across the age spectrum. Prereq: Successful completion of 2nd quarter B.A.S. Respiratory Care Program courses with a 2.0 or higher GPA.

**Adult Critical Care Clinical II**
RCP 450 is the fourth course in the Respiratory Care clinical series. Emphasis will be placed on integrating respiratory theory knowledge with skills performance by providing the student therapist with the opportunity to practice direct patient care. The learner will be assigned to the Critical Care Unit and will perform the duties associated with the management of the critically ill patient on mechanical ventilation.

**Neo/Peds Pathology**
An in-depth study of neonatal and pediatric respiratory care. Focuses on diseases specific to caring for our smallest patients. Covers fetal growth and development, labor and delivery, resuscitation, disease processes, assessment and therapy. Prereq: Successful completion of the previous quarter's Respiratory Care Program courses with a minimum GPA of 2.0.

**Advanced Pharmacology**
Continues the study of medications in the critical care setting and introduces the learner to medications used in the pediatric/perinatal disciplines. Emphasis is on drugs used to treat emergent cardiac abnormalities, common critical care medications, pediatric/perinatal medications and resuscitation products. Prereq: Completion of previous quarter Respiratory Care classes with 2.0 or above.
RCP 464 (2)
Pulmonary Rehab and Home Care
Pulmonary Rehabilitation and Home Care is designed to give the advanced practitioner the knowledge and skills to successfully integrate the technical aspects of Respiratory Care into challenging alternate care settings ethically and safely. Focuses on the concepts, knowledge, and procedures specific to the respiratory care of adults and children with chronic cardiopulmonary disorders, receiving care in the alternative care setting. Emphasis is placed on patient education and health promotion.

RCP 467 (2)
Advanced Cardiopulmonary Physiology
Builds on the topics covered in INTC 217. Covers the interrelationship of cardiopulmonary systems and how the application of therapeutic procedures can alter those normal relationships. Topics include the immunology and fluid transport of the lung, hemodynamics and pulmonary circulation, and additional concepts of acid base physiology. Provides in-depth study of the cardiopulmonary system in the context of critically ill patients.

RCP 468 (3)
Advanced Cardiopulmonary Diagnosis
Emphasis will be placed on the theory, application and interpretation of pulmonary function regimens, exercise testing, bronchoscopy, blood gas sampling and analysis, indirect calorimetry and polysomnography. Further emphasis will be placed on the equipment utilized for the aforementioned tests as well as their calibration and quality control.

RCP 469 (1)
Diagnostic Equipment & Technology
Covers the application of cardiopulmonary diagnostics learned in RCP 468. In this class learners will apply theory acquired in RCP 468 using models, simulation and laboratory partners for practice. Focuses on safe and effective application of diagnostic equipment and procedures across the age spectrum. Covers diagnostic equipment, spirometry, diffusion studies and lung volume determination, cardiopulmonary exercise testing, metabolic studies, bronchoscopy and polysomnography.

RCP 470 (6)
Adult Critical Care Clinical III
Culmination of all previous clinical experiences. Designed to build on the foundation of respiratory care knowledge and skills established in the previous six quarters of the program. Students will be assigned to the Critical Care Unit and will perform all of the required duties of a respiratory therapist in the critical care environment. Emphasis on gaining autonomy and independence in the care of the patient.

RCP 479 (5)
Respiratory Care Capstone
A capstone course in the respiratory care program representing the culmination of student learning throughout the program. Students will take on a project using a faculty and/or community mentor to showcase the work they have done in the respiratory care program. The content varies based on student projects and can take on many forms. Projects will be developed in collaboration with faculty and community mentors and are aligned with student interest.

Retail Skills
SAL 112 (3)
Basics of How to Sell
Role of salesmanship in a free market economy. Assignments and activities related to techniques implicit in developing a sales personality.

SAL 197 (1-15)
Coop Work Experience: Sales
Supervised employment during the fifth quarter of the program. Four hours daily, five days per week. Five credits awarded for each quarter of supervised employment.

Science
SCI 100 (5)
Intro to Science
Covers basic principles and current scientific thought in the major fields of science, including history, philosophy, and methodology. No credit for students who have completed major-level science courses. Non-lab course.

SCI 101 (5)
Intro to Physical Science
Through selected topics in the physical sciences, learn the process of science: Question, Observe, Organize/Analyze and Report. At each stage ask: Which aspects of this step are culturally dependent and which are not? Hands-on explorations guided by inquiry-based material.

SCI 104 (5)
Physical Science
Intro to the physical world through everyday applications of physical science principles. Examines fundamentals of physics and chemistry in light of the scientific method.

SCI 107 (4)
Applied Bioengineering
Covers water-related issues in the developing world: availability, sanitation, food production and environmental degradation. Includes integrative resource management using local human and material resources combined with developing technologies that are safe, adaptable and affordable. Promotes scientific critical thinking and problem-solving.

SCI 110 (5)
Intro to Robotics
Intro to design, construction and programming of autonomous mobile robots. Using complete robot kits (micro-controller, sensors, motors, building parts), work in teams to study design issues of mechanics, sensors, motors and control. Design and construct a robot that will accomplish a particular task.

SCI 111 (1)
Geology Field Day
Covers the best of the region’s geology, including the Seattle Fault, ancient glaciers, fossil forests, landslides, Cascade Mountains and northeastern Oregon. Lab credit. May be taken as GEOL 111.

SCI 112 (1)
Northwest Fieldtrip – Seashore Life
Explores seashore life in the Pacific Ocean and Puget Sound.

SCI 113 (1)
Marsh Ecology – Northwest Field
Explore local wetlands and the organisms that inhabit wetlands ecosystems with a focus on the local animals and plants. Field trips. Lab.

SCI 114 (1)
Northwest Fieldtrip – Astronomy
Covers astronomy from a hands-on perspective in the field.
SCi 116 (1) Edible Plants – Northwest Field
Focuses on edible and medicinal plants of the Pacific Northwest. Lab credit.

SCi 117 (1) Wildflowers – Northwest Field Trip
Classification and ecology of lowland to alpine wildflowers of the Pacific Northwest. Lab credit.

SCi 118 (1) Volcano Field Day
Intro to the origin and destruction of Cascade volcanoes such as Mount St. Helens, Mount Rainier and Glacier Peak. Lab credit. May be taken as GEOL 118.

SCi 131 (5) Interdisciplinary Science 1
Intro to science and scientific method for non-science majors and for students in the Associate in Elementary Education - DTA program. Covers measurements, the metric system, matter and energy, physical and chemical properties and changes, the atom, nuclear chemistry and the importance of science.

SCi 132 (5) Interdisciplinary Science 2
Intro to science and scientific method for non-science majors. Covers mechanics, some topics in astronomy, electricity and the importance of science.

SCi 133 (5) Interdisciplinary Science 3
For students in Associate in Elementary Education, DTA program. 3rd course of 3. Overview of Life Sciences of cellular biology, organismal biology, and ecology and Earth Sciences of geology and biogeology. Prereqs: SCI 131 and 132 each with 2.0 or higher or permission.

SCi 197 (1-15) Co-Op Work Science
Allows students to earn work experience credit in the science field. Prereq: Permission.

SCi 296 (1-10) Travel: Tropical Ecosystem
Hands-on learning opportunities for undergraduates and others who undertake domestic and/or foreign travel. Learn outside the classroom and take advantage of cross cultural materials, flora and fauna, geographical locations, geologic formations, museums, terrestrial ecosystems, regional customs and foods, natural history, marine ecosystems, and field trips which are available only through travel.

SCi 297 (1-10) Travel: Tropical Ecosystem
Hands-on learning opportunities for undergraduates and others who undertake domestic and/or foreign travel. Learn outside the classroom and take advantage of cross cultural materials, flora and fauna, geographical locations, geologic formations, museums, terrestrial ecosystems, regional customs and foods, natural history, marine ecosystems, and field trips which are available only through travel.

SCi 298 (1-5) Special Topics
Seminar of selected topics or activities in the sciences. Prereq: Variable, dependent on topic.

SCi 299 (1-5) Special Problems
Independent study of approved topics in the sciences. Prereq: Permission.

Service Learning
Service-learning is an educational program that combines community involvement with academic instruction and is linked to specific classes as either a requirement or an option. Course assignments and final grades are determined by the faculty of the linked course. Advantages of service-learning include the opportunity to enhance understanding of course content, build experience for a resume, explore career options, and earn college credit. Registration is coordinated by the Service-Learning Program and faculty of the linked course during the second week of the quarter. Permission of Service-Learning Program is required for registration in SLN courses.

SLN 110,111,112,113 (1-2) Service-Learning: Communications
SLN 115,116,117,118 (2)
SLN 120,121,122,123 (2)
SLN 125,126,127,128 (2)
SLN 130,131,132,133 (2)
SLN 135,136,137,138 (2)
SLN 140,141,142,143 (2)
SLN 145,146,147,148 (2)
SLN 150,151,152,153 (2)
SLN 155,156,157,158 (2)
SLN 160,161,162,163 (2)
SLN 165,166,167,168 (2)

CDS 197,198,199 (3-4)
Field Practice/Chemical Dependency
Supervised community-based field experience in which students apply knowledge and develop skills by working in public and private agencies and organizations. Prereq: Permission.
SHS 100 (5)
Intro to Human Services
This course provides an overview of the social and human services field from the perspective of the individual human services worker. Societal conditions, assumptions, and needs that impact delivery of services will be explored. Areas of knowledge, professional values and skills will be discussed. The characteristics of the human services agency will be examined, including professional roles, career opportunities, and challenges. Prereq: Eligibility for ENGL& 101 and MAT 084.

SHS 103 (5)
Social Welfare Policy
Introduction to social welfare policy, social justice, and systems. Emphasis on social welfare policies, systems, and services designed to respond to social issues: public welfare, child welfare, mental health, chemical dependency, aging, poverty, health, disabilities, and corrections. Prereq or coreq: SHS 100 with a minimum 2.0 grade point average; Eligible for ENGL& 101 and MATH 084.

SHS 106 (5)
Principles/Interviewing & Counseling
Intro to beginning-level interviewing and counseling skills in multicultural settings. Demonstration of human services values and knowledge of diverse populations’ needs through counseling techniques: developing relationships; identifying problems, solutions, and goals; and evaluating progress. Prereq or coreq: SHS 100, SHS 103 with a minimum 2.0 grade point average. Eligible for MAT 084.

SHS 108 (5)
Group Dynamics & Counseling
Intro to group work, including group processes, communication patterns, group and individual goal-setting, leadership and decision-making. Includes group participation, role-playing and simulations. Prereq or coreq: ENGL& 101; Prereq: SHS 100 with a 2.0 minimum GPA; Eligible for MATH 084 or equivalent.

SHS 120 (3)
Intro Disabilities Study & Practice
This course surveys the historical perspectives, cultural attitudes and stereotypes that create barriers to personal and collective empowerment for individuals with disabilities. The course covers the social-political aspects of the disability rights movement and examines laws governing civil rights of individuals with disabilities. Students explore the intersection of gender, class, race and the human body with emphasis on social justice and privilege. Prereq: Eligibility ENGL& 101 and Math 084.

SHS 150 (1)
HIV/AIDS Brief Risk Intervention
Includes history, trends, transmission, infection control, testing, counseling, BRI, and psychosocial issues. Meets requirements for human services and chemical dependency professionals. Approved by the WA State Division of Alcoholism and Substance Abuse.

SHS 197 (3)
Field Practice/Social & Human Services
Supervised community-based field experience in which students apply knowledge and develop skills by working in public and private agencies and organizations. Prereq: Permission.

SHS 198,199 (1-5)
Field Practice/Social & Human Services
Work experience in human services agencies, with individual and group supervision provided by agency professionals to share experiences and further develop work-related skills. Prereq: Permission.

SHS 200 (4)
Theories of Counseling
Intro to psychopathology and assessment and counseling theories. Covers ethics, personality theory, counseling techniques and issues, and development of a personal style of assessment and counseling. Prereq: SHS 106.

SHS 205 (3)
Crisis Intervention
Intro to crisis theory and techniques for the beginning mental health/human services professional. Students will develop assessment techniques and interviewing skills with high-stress populations presenting with psychiatric, health, drug and alcohol, sexual assault, intimate partner and domestic violence, bereavement, and suicide and homicide crises. Prereq: Eligible for ENGL& 101 and MAT 084.

SHS 207 (3)
Behavior Management
For human service professionals working with children, adolescents and adults with behavioral problems. Covers learning theory and its application to clients in a variety of settings. Includes knowledge and skills needed to effectively help clients manage their behavior. Understand and practice behavior modification and management. Prereq: ENGL& 101 and eligible for MATH 084.

SHS 209 (5)
Grief and Loss
Explores both the grief and loss experiences in the context of the helping professions. Models and types of grief and loss will be explored. Resources and interventions for clients will be researched. Transitions, situations, and circumstances that result in grief and loss will be examined, as well as cultural responses. Prereq: Eligibility for ENGL& 101 and MAT 084.

SHS 210 (3)
Human Service Diversity
This course examines U.S. society and the diversity within it as well as the effects of societal structures on clients. Topics include an overview of general principles of cultural diversity and cross-cultural services delivery to individuals from many diverse backgrounds. Prerequisite or corequisite of ENGL& 102; prerequisite SHS 100, 103 with a minimum GPA of 2.0; eligibility MATH 084.

SHS 215 (5)
Adolescent Development & Treatment
Focuses on adolescent development and concurrent social, cultural and sexual problems. Includes theory of normal and deviant behavior development, treatment theory and practice and effective use of community resources. Prereq: SHS 235.

SHS 220 (3)
Independent Living I
Revolves around three themes: 1) delimiting the nature and scope of problems related to the attainment of functional independence. 2) providing methods to assess the readiness of youths preparing to achieve and adequate level of self-sufficiency in the adult world. 3) providing methods to facilitate the learning process so youths might acquire the skills necessary for interdependent living in the community. Prereq: none.

SHS 222 (3)
Conflict Management
Intro to understanding and responding effectively to conflict situations. Assess real life conflict cases and design corresponding intervention strategies through video and case studies. Complete a conflict style inventory and practice conflict communication skills. Prereq: Eligible for ENGL& 101 and MATH 084.
SHS 223 (1)
Multicultural Counseling
Overview of Gay, Lesbian, Bisexual, and Transgender (GLBT) culture and issues. Covers theory, research and practices associated with GLBT multicultural competence, as well as the intersections of GLBT culture and race, ethnicity, gender, religion, sexuality and social class. Prereq: ENGL& 101 and MATH 084.

SHS 224 (3)
Leadership Theory Skills
Covers selected major theories of effective leadership and application of leadership skills in the work setting. Examines the characteristics of effective leaders, and evaluates students' professional strengths for potential leadership development. Prereq: ENGL& 101 and MATH 084.

SHS 225 (1)
Relapse Prevention
Defines behavioral and chemical characteristics of relapse and what relapse prevention involves. Focuses on relapse prevention categories, requirements of clients for a relapse prevention program, characteristics that have an impact on relapse, antecedents to relapse and some of the dysfunctional thinking patterns. Covers clinical and practical techniques and skills in an experiential environment. Prereq: SHS 235 and eligible for ENGL& 101 and MATH 084.

SHS 226 (1)
Adolescent Assessment
Intro to adolescence from developmental, clinical and treatment perspectives. Focus on normal and dysfunctional adolescent development; assessment and diagnosis; progression of addiction/disease for the adolescent and the family; and implications for inpatient/outpatient treatment, aftercare, and relapse. Prereq: Eligible for ENGL& 101 and MATH 084.

SHS 230 (3)
Suicide Risk Assessment
This class provides an introduction to suicide assessment and prevention. Students will be introduced to topics such as signs and symptoms of suicidal/self-harm behavior, facts and myths about suicidal behavior, conducting an assessment interview, risk factors and protective factors, the treatment of suicidal individuals, the contagion effect, and self-care for those working with suicidal/self-harm individuals. Prereq: eligible for ENGL& 101 and MATH 084.

SHS 231 (5)
Pharm of Addictions
Overview of the effects of drug use and chemical dependency on the body including physiological, emotional and behavioral effects. Focuses on effects of various chemicals on body systems, drug interactions, and management of chronic and acute conditions of drug abuse. Prereq: SHS 235 and eligible for ENGL& 101 and MATH 084.

SHS 232 (3)
Chemical Dependency & Family
This class provides an overview of how families function as systems and examines the impact of chemical dependency upon the family system. Students will think about theories not only in terms of how well they fit for clients but in terms of their own personal histories. The theoretical models are relevant for families of a variety of cultural, ethnic, and sexual identities. Prereq: eligibility for ENGL& 101 and MATH 084.

SHS 233 (5)
Chemical Dependency Counseling
This course is an overview of specialized techniques, major competencies and theoretical approaches to addiction counseling, including individual, group and family approaches. Ethical behavior, theoretical knowledge, and client diversity is stressed to become a proficient addiction professional. Prereq: SHS 106 and eligible for MAT 084.

SHS 235 (5)
Intro to Chemical Dependency

SHS 242 (5)
Mental Health Diagnosis
Introduction to the DSM IV system of determining diagnosis and current theory for the etiology of the primary Axis I and Axis II disorders. Prereq: eligibility for ENGL 101 and MAT 085.

SHS 245 (3)
Mental Health Overview
Covers the relationship between mental functioning and body physiology: behavioral and physical dysfunctions; reactions to prolonged stress; theories of pain, holistic health, nutrition, cross-cultural perspectives on healing, biofeedback, meditation, psychosomatic diseases and stress reduction. Prereq: Eligible for ENGL& 101 and MATH 084.

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SHS 250 (4)
Client & Community Advocacy
Covers the role of the advocate in a helping situation, use of community advocacy resources and effective use of the media, law, negotiation and political processes to achieve needed services for people. Prereq: Eligible for ENGL& 101 and MATH 084.

SHS 255 (5)
Co Occurring Disorders
Explores skills and knowledge needed for working with clients with mental illness and chemical dependency. Covers symptomatology of frequently diagnosed mental disorders; criteria for substance and dependence; identifying referral needs and processes; treatment needs and barriers; and local services and case management available for the mentally ill chemically abusing (MICA) client. Prereq: SHS 235 and eligible for ENGL& 101 and MATH 084.

SHS 265 (5)
Management & Supervision
Covers management skills for first-line supervisors in alcohol, drug, mental health, correctional, youth and other human service programs. Includes supervision, time management, motivation, leadership, discipline, personnel management, performance appraisals, communications, training and self-development. Prereq: Eligible for ENGL& 101 and MATH 084.

SHS 270 (5)
Ethics in Hs and Cd
Explores ethical behavior and analysis and utilization of ethical codes that apply to human services, mental health, and chemical dependency professionals. Covers ethical reasoning processes, ethical theory, and ethical analysis. Prereq: Eligible for ENGL& 101 and MATH 084.

SHS 275 (3)
Chemical Dependency and Domestic Violence
Specifically designed for those working with chemically addicted, abusive clients and their interactions with family members. Study of treatment goals for domestic violence to foster client understanding of anger, making anger a useful tool, and using healthy and appropriate modes of communication. Prereq: Eligible for ENGL& 101 and MATH 084.
SHS 280 (3) Chemical Dependency Case Management
Emphasis on oral and written communication skills. Formulate up-to-date, accurate, and understandable case files and records. Learn federal and state confidentiality regulations in handling chemical dependent client records. Formulate concise treatment plans in accordance with legal requirements. Prereq: SHS 235; Eligible for ENGL& 101 and MATH 084.

SHS 296 (1) Special Topics
Receive credit for participation in approved human services professional workshops on topics such as stress management, welfare rights, aging, alcoholism, family therapy, depression, law and mental health.

SHS 297 (2) Special Topics
Receive credit for participation in approved human services professional workshops on topics such as stress management, welfare rights, aging, alcoholism, family therapy, depression, law and mental health. Prereq: Eligible for ENGL& 101 and MATH 084/091/087.

SHS 298 (5) Special Topics
Receive credit for participation in approved human services professional workshops on topics such as stress management, welfare rights, aging, alcoholism, family therapy, depression, law and mental health. Prereq: Permission.

SHS 299 (1-5) Independent Study or Research
Individual or group research projects on human service programs and problems. May include field or library research. Prereq: Requires a learning contract.

Social Sciences

SSC 197 (1-15) Social Science Work Experience
Earn work experience credit in the social science field. Prereq: Permission.

Sociology

SOC& 101 (5) Intro to Sociology
This course covers human interaction, social institutions, social stratification, socialization, deviance, social control, and social and cultural change.

SOC 102 (5) Intro to American Culture
Focuses on unique American values, behavior and world view. Compares others values and world views and studies the implications and consequences of these differences. Gain insight from the perspectives of anthropology and sociology. Includes field trips.

SOC 105 (5) Sociology of Black Americans
Evaluation of the sociological impact of the African-American experience in relation to various social systems in America.

SOC 106 (5) Sociology of Asian Americans
Examination of Asian-American experiences in the United States from a sociological perspective. Analyzes Asian-American ethnic communities, social institutions, activities and issues.

SOC 120 (1-5) Sociology of the Media
Sociological perspective of print and electronic media, including television, film, news, and advertising. Analysis of media institutions and the way they affect social, political, and cultural discourse and identities. Examines way in which American identity shapes and is shaped by the media and the changes in this identity from one period to another.

SOC 150 (5) Race/Ethnic Relations
Examines the majority-minority pattern of interaction in American society. Includes theories of race relations and issues shaping intra- and interracial ethnic relations.

SOC& 201 (5) Social Problems
Processes of social and personal disorganization and reorganization in relation to poverty, crime, suicide, family disorganization, mental disorders, and similar issues that are characterized as social problems. Prereq: Placement into ENGL& 101.

SOC 220 (5) Sex Roles and Society
Survey of causes and consequences of sex/gender roles. Examines the relationships between men and women in the U.S. and other regions. Focuses on historical, biological, economical, psychological and anthropological perspectives, identifying and discussing the discernible recurring sex role patterns.

SOC 230 (5) Human Sexuality

SOC 245 (5) Social Psychology
Examines the effect of others on the individual in areas such as self-concept, social cognition, conformity, helping, loving and liking, competition and cooperation and prejudice and discrimination. Research and autobiography by two of the following groups provide content and illustration: African Americans, Asian Americans, Native Americans and Hispanic Americans. May be taken as PSYC 245.

SOC 250 (5) Marriage, Family, Intimate Relationships
Surveys the concept of family as a mode for personal living. Analyzes personal adjustment, parent-child relationships, marital and alternative structures and contemporary issues facing today’s family systems.

SOC 298 (1-5) Special Topics in Sociology
Independent study in selected sociology topics under faculty supervision. Prereq: Permission.

SOC 299 (1-5) Special Problems in Sociology
Small group seminar to discuss selected sociology topics. Prereq: Permission.

Spanish
See Languages & Literature, page 48.

Surgical Technology

SURG 111 (6) Surgical Lab
Covers principles and techniques of operating room procedures. Includes gowning and gloving, aseptic technique, creating and maintaining a sterile field, draping materials, basic instrumentation and patient transport. Prereq: Permission.
SURG 113 (10)
Surgical Theory I
Intro to surgical technology, including legal and ethical aspects, relationships with coworkers, hospital organization and inter-departmental relations, physical and psychological aspects of patient care, operating room techniques and procedures. Prereq: Permission.

SURG 115 (2)
Clinical Orientation
Covers observation of the environment, routines, supplies and equipment, patient-team interaction and application of scientific principles. Prereq: Permission.

SURG 121 (6)
Surgical Spec/Prof Prep
Intro to the principles and practice of surgical pharmacology and anesthesia related to the surgical patient. Learn about minimally invasive surgical instrumentation, equipment and supplies. Prereqs: SURG 111, 113, 115.

SURG 123 (9)
Surgical Theory II
Examines microbiology, pharmacology and anesthesiology relating to the surgical patient. Includes additional peri-operative care techniques and surgical procedures, pathophysiology and the technologist’s role in surgery. Covers general, orthopedic, gynecological, genitourinary-reproductive and ophthalmic specialties. Prereq: Permission.

SURG 125 (4)
Clinical Practice I
Provides clinical practice, with focus on development of entry-level skills. Prereq: Permission.

SURG 133 (10)
Surgical Theory III
Intro to circulating duties and job applicant skills. Covers advanced surgical specialties such as ear, nose and throat, vascular, cardiovascular, thoracic, neurological, plastic/reconstructive and pediatric procedures. Prereq: Permission.

SURG 135 (12)
Clinical Practice II
Provides advanced clinical practice to develop entry-level skills. Prereq: Permission.

Undergraduate Research

UGR 214 (1-5)
Intro to Scientific Research
Preparation for successful completion of an independent research project. Includes the application of scientific method, ethics, research methods, proposal writing and presentation techniques. Prereq: Completion of UGR 214 or instructor permission.

Video Communications

COM 197 (1-5)
Work Experience: Film VI
Earn work experience credit in the video field. Prereq: Permission.

COM 200 (4)
Small Group Productions
Individuals or production teams pursue individual and small-scale projects. Covers topics such as personal video, oral history recording, video art, ethnographic video and video installation. Coreq: ENGL 155.

COM 214 (3)
History of Film & Video
Examines the development of film as art and entertainment: early beginnings as novelty and sideshow; refinement as an art form; role in mass culture. Emphasizes the narrative film from the U.S. and abroad. Screenings show works that are significant because of their place in history, aesthetic worth or stylistic interest.

COM 215 (3)
Media Law and Ethics
Intro to the basic concepts of law applicable to the film, video, on-line industries and production situations Covers the American legal system, contracts, licenses, regulatory codes, principles of intellectual property laws and the First Amendment.

COM 225 (5)
Advanced TV Production & Appl. Com
Expand and refine production skills. Assume roles for large-scale 16mm film and HD video project produced in as sophisticated and professional manner.

COM 230 (3)
Technical Operations
Intro to basic concepts and techniques of multi-camera studio production. Produce and direct -live-to-tape- studio productions. Equipment covered includes studio cameras, teleprompter, switcher, audio board, intercom systems, VTRs and studio lighting dimmers. Prereq: 2nd year standing.

COM 235 (3)
Production Management
Overview of the duties and responsibilities of a production-manager: script, location, union requirements, production board, contracts and negotiations, and fiscal management. Rotate in the role of supervisor of a production crew for television and stage productions. Explore interpersonal interactions.

COM 240 (3)
Theatre/Video Production, Operations
Refine post-production skills and complete a portfolio project that meets a high technical standard. Includes video compression, video on the web, motion graphics, audio sweetening, and working with graphic designers. Prereq: 2nd year standing.

COM 250 (2)
Portfolio Prep Art in Residence
Clarify career intentions and act upon them. Research job markets and trends, develop contact lists, a professional portfolio, a résumé, cover letters, a portfolio reel, and a personal website. Prereq: 2.0 or better in all previous 200 level courses or permission from division Dean.

COM 260 (3)
Directing
Covers basic principles and practices of directing for film and video. Explore script analysis, visualization and storyboarding, staging and blocking, working with other members of the production team, communicating with actors, and preparation for editing.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 270</td>
<td>(1-5)</td>
<td>In-House Productions</td>
<td>A comprehensive exploration of the tools and techniques of cinematography. Learn the care and handling of motion picture cameras, lenses and accessories, film stocks, lighting and grip gear, exposure meters, and lab processes.</td>
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<tr>
<td>COM 298</td>
<td>(1-5)</td>
<td>Special Topics</td>
<td>Seminar on selected topics or activities in video communications. Prereq: Permission.</td>
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<tr>
<td>COM 299</td>
<td>(1-5)</td>
<td>Independent Study Video Communications</td>
<td>This is an independent study course of selected topic(s) in video communications. A research project of mutual desirability is assigned by the appropriate supervising faculty. Prereq: Permission of Instructor.</td>
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<tr>
<td>WCO 131</td>
<td>(18)</td>
<td>Lofting and Layout</td>
<td>Covers the responsibilities of a boatbuilder beginning with lofting and layout. Interprets designer's drawing and reproduce it full size on a loft surface from which construction patterns and templates are lifted. Includes construction of a Pi scale deck, half-models and brass bevels. Participate in new boat construction and boat repair as available. Prereqs: WCO 110, 120.</td>
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<tr>
<td>WCO 132</td>
<td>(18)</td>
<td>Intro Composites Marine</td>
<td>Intro to fiberglass boatbuilding and marine cabinetry construction. Work in teams to lay out, by hand, the complete fiberglass hull, ready to receive wood trim, then begin the marine cabinet project. Uses industry safety and production standards. Prereqs: WCO 110, 120, 131.</td>
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<tr>
<td>WCO 133</td>
<td>(18)</td>
<td>Advanced Composites</td>
<td>Explores more complex fiberglass boatbuilding and repair problems, including repair of damaged fiberglass structures, plug and mold building, and advanced composites, including resin infusion. Apply wood trim to the fiberglass boat constructed in the previous quarter, and complete the marine cabinet. Emphasizes safe and productive use of machinery and supplies. Prereqs: WCO 110, 120, 131, 132.</td>
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<tr>
<td>WCO 134</td>
<td>(18)</td>
<td>Basic Wooden Boatbuilding</td>
<td>Expands skills and concepts. Emphasis on wood boat construction in contemporary and traditional techniques. Work on a wooden boat already under construction, with new boats being started periodically. Covers hull structure, both chine and round bilge. Prereqs: WCO 110, 120, 131, 132, 133.</td>
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<tr>
<td>WCO 136</td>
<td>(18)</td>
<td>Selected Topics</td>
<td>Boatbuilding Optional. Opportunity to re-visit a particular project or skill area in order to develop greater command of the subject matter, or to complete an unfinished project.</td>
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</tr>
<tr>
<td>WCO 137</td>
<td>(18)</td>
<td>Special Project</td>
<td>Opportunity to build their own wood or fiberglass boat or to undertake a more comprehensive boat restoration. Emphasis on performance in a professional manner in safety and project execution.</td>
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</tr>
<tr>
<td>WCO 140</td>
<td>(18)</td>
<td>Carpentry</td>
<td>Four quarters of work dealing with residential construction and remodeling, including technical knowledge and hands-on experience. Prereq: WCO 110. Q-1: Concrete forms &amp; footings, floor systems &amp; job safety. Q-2: General Framing construction, roof framing, staging, working at heights. Q-3: Finish work, setting windows &amp; doors, machine safety. Q-4: Selected class projects.</td>
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<tr>
<td>WCO 141</td>
<td>(18)</td>
<td>Residential Remodel Preserve Carpentry</td>
<td>Covers specific techniques in residential remodeling including bathrooms and kitchens, stairs, scaffolding design and construction, sheetrock demolition, installation and repair and siding application. Prereq: WCO 110.</td>
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<tr>
<td>WCO 142</td>
<td>(4)</td>
<td>Intro Carpenter Blueprint</td>
<td>Intro to becoming a professional carpenter. Focuses on career pathways, craftsmanship, vocabulary, blueprint reading, and jobsite and tool safety. Covers materials, products, tools and best practices for constructing sustainable residential and light commercial construction. Emphasizes developing a strong work ethic, communication skills and collaboration strategies. Prereq: WCO 110 and proof of First Aid/CPR/AED training.</td>
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</tbody>
</table>
**WCO 143 (5)**
**Building Site System**

**WCO 144 (9)**
**Foundation System**

**WCO 145 (9)**
**Framing Systems**
Develops skills in structural framing systems including building physics, framing layout, alternative and traditional framing techniques and energy efficiency strategies. Covers appropriate selection of materials, products, tools and best practices for sustainable residential and light commercial construction. Prereq: WCO 110 and 120.

**WCO 146 (5)**
**Roof System**

**WCO 147 (4)**
**Stair System**
Develops skills in stair systems, including interior and exterior framing styles, layout techniques, and design strategies and techniques. Covers appropriate selection of materials, products, tools and best practices for constructing durable stairways in residential and light commercial buildings. Prereq: WCO 110 and proof of First Aid/CPR/AED training.

**WCO 148 (9)**
**Exterior Finishes**
Develops skills in building exterior systems including building enclosure design, siding installation techniques, installing insulation, window types and installation, flashing techniques and strategies, and trim design and installation techniques. Covers appropriate selection of materials, products, tools and best practices for sustainable residential and light commercial construction. Prereq: WCO 110 and proof of First Aid/CPR/AED training.

**WCO 149 (9)**
**Interior Finishes**
Develops skills in building interior systems including drywall installation and finishing, door and trim installation, finish carpentry techniques and strategies. Covers appropriate selection of materials, products, tools and best practices for sustainable residential and light commercial construction. Prereq: WCO 110 and proof of First Aid/CPR/AED training.

**WCO 150 (18)**
**Cabinetmaking/Millworking**

**WCO 151 (18)**
**Intro Cabinetmaking Fundamentals**
Learn to work safely and efficiently with hand, portable, and stationary tools to produce jigs and fixtures to increase productivity. Covers basic principles of joining and assembling, blueprint reading, layout procedures, developing a cut list, milling procedures, and fabrication techniques to successfully produce required projects. Use working drawings, layout on a story stick or a CAD program to construct a router table.

**WCO 153 (18)**
**Basic Cabinetmaking Fundamentals**
Build a series of jigs and fixtures to produce basic traditional joinery. Use working drawings to produce a frameless cabinet based on the 32mm system of cabinet construction, and a face frame cabinet for personal hand tool storage. Includes workplace standards for self-confidence, interpersonal communication and safe use of equipment and tools, and individual skills development.

**WCO 155 (18)**
**Advanced Cabinetmaking Arch Furniture**
Design, layout and construct three pieces of furniture using advanced joinery techniques, applications of veneers, and previously learned construction techniques. Emphasizes mortise and tenon joinery, tapered legs and application of basic veneering techniques. Within certain criteria, choose own dimensions, materials and detailing.

**WCO 157 (18)**
**Independent Capstone Project**
Propose a culminating project of interior furnishings (casework, furniture, and millwork) of a custom or limited production fabrication. Devise a coherent engineering approach to the concept and manage all project tasks. Emphasizes individual time management, problem solving, creativity, and professional growth. Expand fabrication skills. All projects must be faculty approved.

**WCO 160 (3)**
**Architectural Blueprint Reading**
Focuses on how to read and apply information gained from blueprints for cost-estimating and developing cutting lists.

**WCO 164 (2)**
**Roofframing & Stairbuilding**
Develop and upgrade efficiency in stair- and roofbuilding with new techniques and skills.

**WCO 166 (3)**
**Furniture Design & Construction**
A class to include a survey of furniture design trends in both traditional and modern furniture. The design process is outlined, giving students an opportunity to explore and refine their own design ideas. Students will design a table and with instructor approval begin construction of their own design. Prereq: Completion of core, cabinet I & II or permission of instructor.

**WCO 167 (4)**
**Fine Furniture I**
Intensive course designed for persons with solid cabinetmaking fundamentals who would like to learn techniques suited to making fine furniture in the northern European tradition. The areas to be covered are outlined for each quarter. Wooden handplanes will be constructed for both flat and curved work during the course, each participant will design and build one small project. Emphasis on handwork.
WCO 170 (3)
**Boat Lofting**
Fundamental course in the development of lofting and fairbody. Covers the relationship of buttocklines, waterlines, sections and diagonals and how to interpret the lines and offsets for fairbody development.

WCO 180 (1)
**Use & Appl. Hand Router**
Intro to the types and uses of the hand router. Includes basic operations, selection of router bits and an intro to jigs and templates.

WCO 181 (2)
**Advanced Router Technique**
A lecture/demo class with a hands on opportunity for students to construct specialty jigs and templates for the hand router. This class will explore and explain the many uses and applications that the student might be aware of. Prereq: Use & application of the hand router or by permission of the instructor.

WCO 197 (1-15)
**Work Experience: Wood Construction**
Earn work experience credit in the wood construction field. Prereq: Permission.

WCO 299 (1-18)
**Special Project/Boatbuilding**
Special Projects in Boatbuilding

**World Languages**

*See Languages & Literature, page 48.*