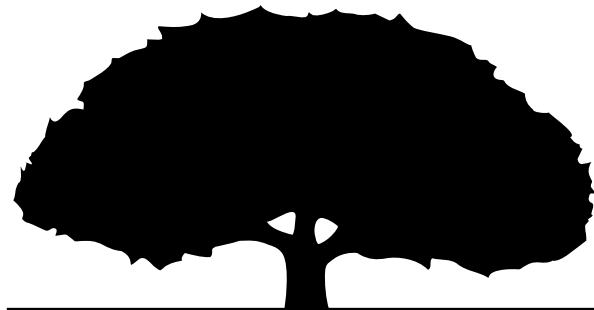


# *Winter 2018*

## *Advising Schedule*



CENTRALIA  
COLLEGE

Winter quarter classes begin January 3, 2018.

Check our website for current class schedule information: <http://www.centralia.edu/academics/courses.html>

## SCHEDULE KEY

- ☞ Class has online component(s)
- ☐ Evening courses
- ☐ Class is offered at Centralia College East in Morton

### Class section codes:

- 1 = Class is fully online
- 2 = Class is other
- 3 = Class is hybrid (some class time replaced with online activities)
- 4 = Class is web enhanced (some class resources, files or activities are online)
- 5 = Class is flexible (students choose to attend class online, in the classroom or any combination)

Courses with ☞ have online requirements. Enrollment in an online, hybrid, web-enhanced, or flexible class will result in a once per quarter, once per student Lab fee Lab fee \$4 fee. Additionally, a Lab fee Lab fee \$2 per credit fee will be applied for online courses.

## COURSE DISTRIBUTION

Courses approved as satisfying distribution requirements for degree programs are designated with Diversity (D), Humanities (H), Health and Fitness (HF), Communication (C), Natural Science (S), Social Science (SS), Quantitative Skill (M).

### Diversity

Courses designated with a "(D)" focus on experiences of people traditionally under-represented in American history. At least one D-course is required for an Associate Degree. Some are only offered once a year. See course descriptions for more details.

## ACCOUNTING

### Practical Accounting II

☞ 5070 ACCT 120A4 (3) 8-8:50am MWF WAH 205 Smejkal  
Accounting theory as applied to bookkeeping systems of small businesses and professional organizations. Focuses on accounting for payroll, merchandise sales and purchases, cash receipts and payments, preparation of the worksheet and annual financial statements. Prerequisite: ACCT 110.

### Financial Reporting

☞ 5072 ACCT 200AP1 (5) Online Smejkal  
This course emphasizes the fundamentals of double-entry accounting and the preparation of financial statements for business entities. Topics include, but are not limited to, accounting for assets, liabilities, equity, revenue and expenses. Prerequisite: compass minimum score of MATH 096 or evidenced score entrance equivalent.

### Prin of Accounting I

☐☞ 5079 ACCT& 201S3 (5) 3-4:20pm MW MOR 101 Germann  
☐☞ 6130 ACCT& 201S5 (5) Flexible ARR MOR 101 Germann  
This course emphasizes fundamental principles of double-entry accounting and the preparation of financial statements for sole proprietorships. Prerequisite: MATH 098 or equivalent or instructor permission.

### Prin of Accounting II

☞ 5080 ACCT& 202A4 (5) 12-1:30pm MWF WAH 113 Rabe O  
☞ 5081 ACCT& 202B5 (5) Flexible Rabe O  
This course emphasizes accounting for partnerships and corporations. Topics include, but are not limited to, accounting for fixed and intangible asset, payroll, stock, bonds, the statement of cash flows, and financial statement analysis. Prerequisite: ACCT& 201.

### Prin of Accounting III

☞ 5083 ACCT& 203A3 (5) 10-10:50am MWF WSC 109 Rabe O  
This course emphasizes accounting for departments and branches, cost accounting in a manufacturing environment cost-volume-profit analysis, budget preparation and analysis, standard costs, segment reporting, differential costs and revenues, and capital budgeting decisions. Prerequisites: ACCT& 201 and 202 or ACCT 200.

### Acctg Info Systems

☞ 5073 ACCT 220AP1 (5) Online Mecham  
The application of accounting information systems used in the computing environment. It is intended for the public bookkeeper managing transactional disposition of all accounts, developing financial statements, and maintaining external schedules. Prerequisite: ACCT 201 or instructor permission.

### Business Entity Tax

☞ 5074 ACCT 240A4 (5) 1-3:20pm TTh WAH 113 Rabe O  
☞ 5075 ACCT 240B5 (5) Flexible Rabe O

This course focuses on the determination and disposition of taxation as it applies to business entities, as well as introducing elements of tax planning and research. Prerequisite: ACCT& 203.

### Individual Income Taxes

☐☞ 5076 ACCT 260S3 (5) 4:30-5:50pm MW MOR 101 Germann  
☐☞ 6129 ACCT 260S5 (5) Flexible ARR MOR 101 Germann

Introductory course in taxation emphasizing the preparation of individual federal income tax returns. Course focuses on history, economics, social aspects, equity, and structure of the federal income tax laws of the United States. Prerequisite: ACCT& 201.

### Legal

☞ 6117 ACCT 291AP1 (1) Online Rabe  
Examines business professional ethic and legal requirement topics as needed to apply that knowledge. Third in a 5-part series in preparation for the Washington State CPA Exam in cooperation with Becker Professional Education. Instructor permission required.

### Tax

☞ 6118 ACCT 294AP1 (4) Online Rabe  
Examines taxation process as it applies to individuals, business, and non-profit entity topics and the skills needed to apply that knowledge. Second in a 5-part series in preparation for the Washington State CPA Exam in cooperation with Becker Professional Education. Instructor permission required.

## AMERICAN SIGN LANGUAGE

### American Sign Language II

☞ 5102 ASL& 122A4 (5) 12-2:20pm TTh WSC 109 Depuye-Phillips  
☞ 5103 ASL& 122B4 (5) 2:30-4:50pm MW WSC 109 Depuye-Phillips

Enables students to better use and comprehend ASL by building vocabulary, improving skills of signing, reading of signs, and understanding of the deaf community. Prerequisite: ASL& 121 or instructor permission.

## ANTHROPOLOGY

### Cultural Anthropology (SS)(D)

5084 ANTH& 206A (5) 9-9:50am Daily WSC 121 Avalos  
5085 ANTH& 206B (5) 12-12:50pm Daily WSC 208 Avalos

Explore the whole of the human social and cultural world by means of investigating other people's beliefs and behaviors. Through a cross-cultural perspective we attempt to understand others in order to better learn about ourselves.

**Indians of North America (SS)(D)**

☞ 5086 ANTH& 210AP1 (5) Online Medlin  
Investigate cultural systems of beliefs, behaviors and technology practiced by native North American peoples. Learn about subsistence patterns, exchange and trading relationships, marriage and the family, political organization, the life cycle, religion, belief and knowledge.

**ART****Art Appreciation (H)**

☞ 5094 ART& 100AP1 (5) Online Frey  
Introduction to the visual arts. Painting, drawing, sculpture and architecture will be examined as art forms and for their role in human history. Students will be introduced to a variety of art media and techniques.

**Drawing I (H)**

☞ 5087 ART 102A4 (5) 1-3:50pm MW WAH 108 Solomon  
Study the fundamentals of drawing: composition, technique and manipulation of materials, exploration of subject matter. Lectures on contemporary and historical artists support drawing labs. Lab fee \$9.33.

**Drawing II**

☞ 5088 ART 103A4 (5) 1-3:50pm MW WAH 108 Solomon  
Intermediate level study of the fundamentals of drawing: composition, technique and manipulation of materials, exploration of subject matter. Lectures on contemporary and historical artists support drawing labs. Prerequisite: ART 102 or instructor permission. Lab fee \$9.33.

**Drawing III**

☞ 5089 ART 104A4 (5) 1-3:50pm MW WAH 108 Solomon  
Advanced level study of the fundamentals of drawing: composition, technique and manipulation of materials, exploration of subject matter. Lectures on contemporary and historical artists support drawing labs. Prerequisite: ART 102, 103 or instructor permission. Lab fee \$9.33.

**Printmaking I**

☞ 6149 ART 106A4 (5) 1-3:50pm TTh WAH 144/116Solomon  
An introduction to the field of printmaking. Students will learn how to create multiples of a single image or drawing using traditional printmaking techniques. Lab fee \$50.

**Sculpture**

☞ 5090 ART 111A3 (4) 1-3:20pm MW WAH 116 Frey  
An introduction to the fundamentals of three-dimensional design. Assignments include a variety of subject matter and materials. All are welcome.

**Computer Graphics (H)**

☞ 5091 ART 130A3 (5) 11-11:50am Daily WAH 209 Solomon  
An overview of computer programs used to create images for print and screen, still and moving. Gain basic skills in design and programs by creating digital art work in a series of assignments. Lab fee \$50.

**Art History: 15th-17th C (D) (H)**

☞ 5092 ART 201A4 (5) 1-2:50pm TTh WSC 213 Frey  
1-1:50pm F WSC 213 Frey  
A survey of the development of art in Pre-Columbian America, Africa and 15th-17th century Europe. The course will explore developments in architecture, sculpture, painting and other art forms.

**ASTRONOMY****The Solar System & the Universe (S)**

☞ 5104 ASTR 127N3 (5) 5-6:50pm Th WSC 208 Garcia  
+3 hrs/wk TBA

Brief overview of the history and scope of astronomy, followed by a systematic study of the solar system, stars, galaxies, and the universe. Prerequisite: one year HS algebra or MATH 098.

**Observational Astronomy (S)**

☞ 5105 ASTR 128N3 (2) 7-8:50pm Th WSC 208 Garcia  
+1 hr/wk TBA

Introduces the night sky as seen with the naked eye and a telescope. Lectures, labs, and observations provide astronomical concepts and hands on applications of these concepts. Transportation to Onalaska's Observatory is the student's responsibility.

**BIOLOGY****Survey of Biology (S)**

☞ 5110 BIOL& 100A4 (5) 8-8:50am MTWTh WSC 111 Jewell  
1-2:50pm T WSC 303 Jewell

Surveys the structures and functions of cells and organisms. Explores basic genetic and evolutionary processes, and outlines the characteristics of life, its history, and biodiversity. Lab fee \$18.46.

**Human Biology (S)**

☞ 5111 BIOL& 170A4 (5) 10-10:50am Daily WAH 103 Jewell  
Presents the structure, organization, and life functions of the human; cells, tissues, and organ systems; development from embryo to adult; aging and disease; human evolution and ecology.

**Human Biology Lab**

☞ 5106 BIOL 172A4 (1) 1-2:50pm Th WSC 314 Jewell  
Investigate the structure and function of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, immune, respiratory, digestive, urinary, and reproductive systems. Prerequisite: BIOL& 170. Lab fee \$18.46.

**Majors Cell/Molecular (S)**

☞ 5112 BIOL& 222A4 (5) 11-11:50am MTWTh WSC 108 Norton  
2-3:50pm Th WSC 303 Norton  
☞ 5113 BIOL& 222B4 (5) 11-11:50am MTWTh WSC 108 Norton  
4-5:50pm Th WSC 303 Norton

Metabolism and energetics, structure and function of biomolecules, Mendelian and molecular genetics, biotechnology, cell structure and function. Second course in a three-quarter series (BIOL& 221, 222, and 223). Prerequisites: HS biology or BIOL& 100; CHEM& 121 or CHEM& 161 recommended. Lab fee \$20.96.

**Human A & P 1 (S)**

☞ 5114 BIOL& 241A3 (5) 6-6:50pm W WSC 215 Norton  
4-5:50pm M WSC 314 Norton  
+3 hrs/wk TBA  
☞ 5115 BIOL& 241N3 (5) 6-6:50pm W WSC 215 Norton  
6-7:50pm M WSC 314 Norton  
+3 hrs/wk TBA

Investigate interactions between structure (anatomy) and function (physiology) essential for human health. Investigate organization and function of macromolecules, membranes and the cell, tissues, integument, skeleton and articulations, skeletal muscles, nervous system and the brain. Prerequisite: HS biology and chemistry or BIOL& 100 or BIOL& 170 and CHEM& 121. Lab fee \$18.46.

**Human A & P II (S)**

☞ 5116 BIOL& 242A4 (5)	12-12:50pm 2-3:50pm	MTWTh T	WSC 121 WSC 314	Norton Norton
☞ 5117 BIOL& 242B4 (5)	12-12:50pm 2-3:50pm	MTWTh W	WSC 121 WSC 314	Norton Norton
☞ 5118 BIOL& 242C4 (5)	12-12:50pm 4-5:50pm	MTWTh T	WSC 121 WSC 314	Norton Norton

Investigate the interactions between structure (anatomy) function (physiology) essential for human health. Investigate organization and function of the sensory, endocrine, cardiovascular, immune, respiratory, digestive, urinary, and reproductive systems. Prerequisite: BIOL& 241 or instructor permission. Lab fee \$18.46.

**Research in Biology**

5107 BIOL 270A (1-12)	ARR	ARR	ARR	Norton
5108 BIOL 270B (1-12)	ARR	ARR	ARR	Carlson L
5109 BIOL 270C (1-12)	ARR	ARR	ARR	Jewell

Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

**BOTANY****Survey of Botany (S)**

☞ 6141 BOTA 110A3 (5)	11-11:50am 2-3:50pm	MTWTh W	WSC 111 WSC 307	Carlson L Carlson L
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Introduction to plants for non-majors, with emphasis on growth, function, and reproduction. Human uses and modifications of plants for food and medicine will be explored. Students will conduct plant growth experiments in the greenhouse. Lab fee \$18.01.

**BUSINESS ADMINISTRATION****Intro to Business**

☞ 5159 BUS& 101A3 (5)	9-9:50am	MWF	TAC 122	Crawford
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Introduction to the world of business. Emphasis will include functions of business, management, types of business ownership, human resources, production, marketing, ethics, and the role of accounting.

**Business Math**

☞ 5154 BUS 121A3 (5)	11-11:50am	MWTh	TAC 339	Rath
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Surveys the commercial application of mathematics designed to assess and analyze business activities and their effect on cost, profitability and overall performance. Prerequisite: MATH 096 or equivalent test score.

**Business Law**

☞ 5160 BUS& 201AP1 (5)	Online			Harrie
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Introduction to state and federal constitution, laws and procedures including international trade, crimes, torts, contracts, sales, property, bankruptcy, securities, consumer protection, employment, and debtor-creditor relationships. The relationship between ethics and law will be discussed.

**Human Resource Mgmt**

☞ 5155 BUS 203A3 (5)	11-11:50am	MWF	WAH 115	Smejkal
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Introduction to fundamental concepts of human relations management. This course will focus on recruiting, employee selection and training, employee performance and compensation, and employee laws and labor. Prerequisite: BUS& 101, college level reading and writing.

**Money and Banking**

☞ 6103 BUS 225A3 (5)	12-12:50pm	MTWTh	TAC 339	Rath
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An introduction to the core principles of money and banking. Topics to be discussed include interest rates, financial instruments, financial markets, financial institutions, central banks, monetary policy, financial stability, and modern monetary economics. Prerequisite: ACCT& 201, 202.

**Data Dashboards**

☞ 6104 BUS 230A3 (5)	9-9:50am	MWF	WAH 212	McClain
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Turn data into dashboards and reports focused on identifying business goals, trends and patterns that guide business decisions. Create interactive dashboards using Excel tools such as pivot tables, pivot charts, slicers and advanced formulas. Prerequisite: BTEC 214

**Principles of Management**

☞ 5158 BUS 275AP1 (5)	Online			McClain
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Management styles and effective management of personnel from the manager's side of business. The course is built around the five traditional functions of management and exploring management problems and practices. Real-life case problems used.

**BUSINESS OFFICE TECHNOLOGY****Keyboarding for Business**

☞ 5119 BTEC 101A3 (3)	9-9:50am	Daily	WAH 207	Copeland
☞ 5120 BTEC 101B4 (3)	11-11:50am	Daily	WAH 207	Vandegriff
☐ 5121 BTEC 101R (3)	12-2:30pm	TTh	MOR 112	Cantin

For beginning students. Learn to keyboard to 25wpm by touch. Develop speed, accuracy and apply basic word processing techniques to letters, reports and tables.

**Keyboard Skillbuilding I**

☞ 5123 BTEC 102A3 (3)	9-9:50am	Daily	WAH 207	Copeland
☞ 5124 BTEC 102B4 (3)	11-11:50am	Daily	WAH 207	Vandegriff
☐ 5125 BTEC 102R (3)	12-2:30pm	TTh	MOR 112	Cantin

Individualized skillbuilding program for increasing keyboarding speed and improving accuracy. Upon completion of this course, students should be able to type at a minimum of 35wpm with no more than one error per minute. Prerequisite: BTEC 101 and typing at 35wpm or instructor permission.

**Business English**

☞ 5127 BTEC 110A4 (5)	11-11:50am	Daily	WAH 205	Shultz
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Editing skills including grammar, punctuation, proofreading, and spelling for office correspondence. A basis for machine transcription, business communication, and office procedures.

**Cooperative Work Experience**

☞ 5129 BTEC 190A4 (1-12)	ARR	ARR	ARR	Copeland
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See description under Cooperative Work Experience heading.

**Work Experience Seminar**

☐ 5131 BTEC 191R (1)	ARR	T	MOR 112	Cantin
☞ 5130 BTEC 191AP1 (1)	Online			Copeland

Topics include professional image, business etiquette, sexual harassment, resolving conflict, and diversity in the workplace. Must be taken prior to or concurrently with Co-op Work Experience.

**Microsoft Outlook**

☞ 5132 BTEC 205A3 (1)	12-12:50pm	F	WAH 205	Shultz
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Course uses Microsoft Outlook for e-mail, scheduling meetings, maintaining appointment calendars, managing contacts, and tasks. Prerequisite: windows experience and keyboarding skills.

**Word I**

☞ 5133 BTEC 210A3 (5) 9-9:50am Daily WAH 205 Shultz  
 ☐☞ 5135 BTEC 210RE5 (5) Flexible TTh MOR 112 Cantin

Class covers Word in depth: document preparation, formatting, graphics, WordArt, columns, sorts, charts, mail merge, and styles. Students will format business documents to business standards. Prerequisite: keyboard skill of 35wpm or instructor permission. Students who register for the flexible section will have the option to work online, or attend class, or a combination of the two. Optional class time is available Tuesday and Thursday between 11am-4pm.

**Access I**

☞ 5136 BTEC 212A3 (5) 12-12:50pm MTWTh WAH 207 Copeland  
 ☐ 5137 BTEC 212R (5) 2-4pm TTh MOR 112 Cantin

An introduction to Microsoft Access. Students will learn basic concepts of database software and be able to integrate Access with Word and Excel. Prerequisite: keyboard speed of 30wpm, Word I and Excel or instructor permission. Lab fee \$10.69.

**Excel**

☞ 5139 BTEC 214A3 (5) 12-12:50pm MTWTh WAH 205 Shultz  
 ☐☞ 5141 BTEC 214RE5 (5) Flexible TTh MOR 112 Cantin

A hands-on approach for beginning through intermediate level applications of Excel spreadsheet using a variety of business applications. Prerequisite: word processing, windows, keyboard skills. Students who register for the flexible section will have the option to work online, or attend class, or a combination of the two. Optional class time is available Tuesday and Thursday between 11am-4pm.

**Desktop Publishing**

☐☞ 5143 BTEC 218RE5 (4) Flexible TTh MOR 112 Cantin

Course covers desktop publishing terminology and concepts to plan, create, and design professional-looking businesses and personal documents. Prerequisite: Word, keyboard speed of 35wpm. Students who register for this class will have the option to work online, or attend class, or a combination of the two. Optional class time is available Tuesday and Thursday between 11am-4pm.

**Word II**

☐☞ 5146 BTEC 219RE5 (4) Flexible TTh MOR 112 Cantin

Course covers footnotes, endnotes, citations, bibliographies, table of contents, indexes, linked textboxes, multilevel lists, building blocks, fill-in forms, macros, outlines, Quick Parts, templates formal reports. Prerequisite: Word 1, keyboard speed of 35wpm. Students who register for this class will have the option to work online, or attend class, or a combination of the two. Optional class time is available Tuesday and Thursday between 11am-4pm.

**Ten-Key Calculator**

☞ 5146 BTEC 220A4 (1) 10-10:50am MW WAH 111 Vandegrift

Touch control of 10-key pad with emphasis on speed and accuracy. Addition, subtraction, multiplication, and division techniques used in solving business problems. Basic or Business Math recommended first. Lab fee \$7.15

**Business Communications**

☞ 5147 BTEC 221A4 (5) 10-10:50am Daily WAH 207 Copeland

Applying principles of effective communication in written and oral business communication: letters, memos, reports, and presentations. Upon completion students should be able to produce effective positive, negative, and routine letters, memos, and reports and graphs. Prerequisite: BTEC 110 or ENGL& 101, or instructor permission.

**Microsoft Office-PowerPoint Module**

5148 BTEC 222A (1) 1-1:50pm W WAH 205 Shultz  
 ☐☞ 5150 BTEC 222RE5 (1) Flexible T MOR 112 Cantin

An introduction to Microsoft PowerPoint. Upon completion of this course students should have beginning knowledge of a presentation program. Prerequisite: keyboard speed of 35wpm, Windows Workstations OS or instructor permission. Students who register for the flexible section will have the option to work online, or attend class, or a combination of the two. Optional class time is available Tuesday and Thursday between 11am-4pm.

**Filing**

☞ 5151 BTEC 233A4 (3) 12-12:50pm MWF WAH 212 Vandegrift  
 ☐ 6131 BTEC 233R (3) 2-4pm M MOR 108 Cantin

Basic principles and procedures of records storage and management. Practice indexing, coding, and filing for alphabetic, numeric, subject, geographic filing systems, and introduction to forms design.

**Insurance and Billing**

☞ 5152 BTEC 255A3 (5) 1-1:50pm MTWTh WAH 207 Copeland

Introduction to major insurance program information and federal healthcare legislation. Exploration of health insurance guidelines and the knowledge and skills required for billing and reimbursement. Includes hands-on practice with simulated billing software. Prerequisite: BTEC 260.

**CHEMICAL DEPENDENCY****CDP Counseling Techniques**

☞ 6105 CDP 111A4 (4) 10-11:50am TTh TAC 338 Bailey

An overview of techniques and theoretical approaches to chemical dependency counseling. Practical training designed to develop interviewing and chemical dependency counseling skills when workign with diverse populations within all levels of care. Prerequisite: CDP 100.

**Assess & Treatment Plans**

☞ 6152 CDP 130A3 (5) 1-2:50pm TTh TAC 339 Rabe S

Focus on assessment, placement, case planning and management of substance-abusing clients. Overview of federal, state, and agency policies and procedures, assessments, treatment and discharge planning. Prerequisite: CDP 100.

**Treatment in Groups**

☞ 5163 CDP 210A4 (4) 10-11:50am MW TAC 338 Rabe S

Group-counseling theory as applied to alcohol and drug treatment. Inpatient and outpatient treatment using groups to foster change and growth. Dynamics, interaction, composition, goals, managing tasks, role and normative boundaries, and skill practice. Prerequisite: CDP 100.

**Chemical Dependency & Family**

☞ 5165 CDP 220A3 (4) 1-3:50pm F WSC 107 Staroff

Family therapy: structural, functional and systems approaches of the chemically dependent family. Issues related to family stages of adaptation to chemical dependency, family roles, children and adult children of alcoholics. Emphasis: support, treatment and prevention. Prerequisite: CDP 100.

**Community Prevention**

☞ 5171 CDP 250A3 (3) Online Rabe S

Child and adolescent alcohol and drug abuse prevention. Discuss the history of prevention, research, community needs assessments and best/promising prevention practices. Design and evaluate an effective prevention program. Prerequisite: CDP 100.

## CHEMISTRY

### Introduction to Chemistry (S)

☞ 5213 CHEM& 121A4 (5)	11-11:50am 1-2:50pm	MTWTh M	WSC 121 WSC 308	Staff Staff
☞ 5214 CHEM& 121B4 (5)	11-11:50am 3:20-5:10pm	MTWTh Th	WSC 121 WSC 308	Staff Staff
☞ 5215 CHEM& 121C4 (5)	11-11:50am 1-2:50pm	MTWTh Th	WSC 121 WSC 308	Staff Staff

Survey of chemistry with applications in everyday life: atoms, bonds, reactions, and calculations. Prerequisite: one year HS algebra or MATH 098. Lab fee \$27.69.

### Problem Solving in Chem

☞ 6156 CHEM 159A3 (1)	9-9:50am	F	WSC 101	Goodwin
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This course is designed to provide instruction and practice in quantitative problem solving, critical thinking, and the mathematics and study skills that are required to be successful in CHEM& 161. Corequisite: CHEM& 161.

### General Chem w/lab I (S)

☞ 5216 CHEM& 161A4 (6)	9-9:50am 1-4:50pm	MTWTh T	WSC 101 WSC 302	Goodwin K Goodwin K
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First of a three-quarter sequence for science and engineering majors. Includes matter, measurements, equations, stoichiometry, solution chemistry, gases, thermochemistry, quantum theory, and electronic structure. Problem solving and critical thinking are stressed. Includes lab. Prerequisite: CHEM& 121 (minimum 2.0) and MATH 099 or equiv., or instructor permission. Lab fee \$27.46.

### General Chemistry w/lab II (S)

☞ 5217 CHEM& 162A4 (6)	10-10:50am 1-4:50pm	MTWTh T	WSC 121 WSC 308	Goodwin K Bradley
☞ 5218 CHEM& 162B4 (6)	10-10:50am 1-4:50pm	MTWTh W	WSC 121 WSC 308	Goodwin K Bradley

Second of a three-quarter sequence. Includes periodic trends, chemical bonding and structure, valence bond/molecular orbital theory, intermolecular forces, liquids and solids, solutions, kinetics, and equilibrium introduction. Lab emphasizes data analysis and interpretation. Prerequisite: CHEM& 161 with a 2.0 or better or instructor permission Lab fee \$27.69.

### Organic Chemistry w/lab II

☞ 5219 CHEM& 262A4 (6)	12-12:50pm 1-4:50pm	MTWTh W	WSC 215 WSC 302	Goodwin K Goodwin K
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Complex organic reactions: alkenes; alkynes; aromatics, aldehydes, ketones. Spectroscopy. Prerequisite: CHEM& 261 or equivalent. Lab fee \$26.88.

### Research in Chemistry

5211 CHEM 270A (1-12) **CANCELED**

5212 CHEM 270B (1-12)	ARR	ARR	ARR	Goodwin K
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Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

## CHILD & FAMILY STUDIES

### Learning and Playing

5173 CFS 110ELL (1-2)	ARR	ARR	ARR	Burkhart
☐ 5174 CFS 110MOR(1-2)	9:30-11:30am	Th	MOR	Hanson

Parents learn about child development and how to apply that knowledge in their parenting role. Children attend classes with parents and participate in learning activities.

### Learning with Infants and Toddlers

5175 CFS 121A (2) 10-11:50am W ARR Hastings  
Parents learn about child development and how to apply that knowledge in their parenting role. Children attend classes with parents and participate in learning activities, music, discussion and art.

### Positive Parenting I

5193 CFS 131SSK (1)	10-11:30am	Sa	HFL	Quinlan
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### Positive Parenting Children in Childcare

☞ 5176 CFS 131AP1 (1-2)	ARR	ARR	ARR	Kirkpatrick
☞ 5194 CFS 141AP1 (1-2)	ARR	ARR	ARR	Kirkpatrick
☞ 5204 CFS 151AP1 (1-2)	ARR	ARR	ARR	Kirkpatrick

### Positive Parenting Children in ECEAP

6125 CFS 131CLS (1)	ARR	ARR	CDC	Chapman
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5177 CFS 131BEC (1)	ARR	ARR	ARR	Martin
5195 CFS 141BEC (1)	ARR	ARR	ARR	Martin
5205 CFS 151BEC (1)	ARR	ARR	ARR	Martin

5179 CFS 131CEC (1-2)	ARR	ARR	ARR	Osborne
5197 CFS 141CEC (1-2)	ARR	ARR	ARR	Osborne
5206 CFS 151CEC (1-2)	ARR	ARR	ARR	Osborne

5192 CFS 131SEC (1-2)	ARR	ARR	ARR	Scannell
5203 CFS 141SEC (1-2)	ARR	ARR	ARR	Scannell

5180 CFS 131CHE (1-2)	ARR	ARR	ARR	Osborne
5198 CFS 141CHE (1-2)	ARR	ARR	ARR	Osborne

5178 CFS 131CAM (1-2)	ARR	ARR	CDC	Osborne
5196 CFS 141CAM (1-2)	ARR	ARR	ARR	Osborne

### Positive Parenting Children in Head Start

5184 CFS 131H (1-2)	ARR	ARR	CEN	Smith
5200 CFS 141H (1-2)	ARR	ARR	CEN	Smith
5208 CFS 151H (1-2)	ARR	ARR	ARR	Smith

### Positively Parenting in Cooperative Preschool

5182 CFS 131FDL (1-2)	ARR	ARR	CEN	Chapman
5199 CFS 141FDL (1-2)	ARR	ARR	CEN	Chapman
5207 CFS 151FDL (1-2)	ARR	ARR	CEN	Chapman

☐ 5187 CFS 131MOR (1-2)	ARR	ARR	MOR	Hanson
☐ 5201 CFS 141MOR (1-2)	ARR	ARR	MOR	Hanson
☐ 5209 CFS 151MOR (1-2)	ARR	ARR	MOR	Hanson

5191 CFS 131ROC (1-2)	ARR	ARR	ROC	Chapman
5202 CFS 141ROC (1-2)	ARR	ARR	ROC	Chapman
5210 CFS 151ROC (1-2)	ARR	ARR	ROC	Chapman

### Positively Parenting as a Grandparent

5183 CFS 131GAP (1)	6-7:50pm	M	HFL	Rearden
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### Training in Positive Parenting Skills - TIPS

5186 CFS 131M (4)	5:30-7:30pm	TW	HFL	Osborne
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### Positive Parenting in Recovery

5190 CFS 131REC (2)	ARR	ARR	ARR	Osborne
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### Dynamic Dads Positive Parenting

5181 CFS 131DAD (3)	9-11:50am	Sa	LAX 103	Kauano
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### Leadership

5185 CFS 131LDP (2)	ARR	ARR	LAX	Chapman
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## CHINESE

### Chinese I (D) (H)

☎ 5220 CHIN& 121A4 (5) 12-12:50pm Daily WSC 210 Wynder  
Learn the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture.

### Chinese II (H)

☎ 5221 CHIN& 122A4 (5) 11-11:50am Daily WSC 210 Wynder  
Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 121 or instructor permission.

### Chinese V (H)

☎ 5222 CHIN& 222A4 (5) 10-10:50am Daily WSC 205 Wynder  
Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 221 or instructor permission.

## COMMUNICATION STUDIES

### Introduction to Mass Media (H)

☎ 5233 CMST& 102A4 (5) 11-11:50am Daily WAH 103 Fisher  
☎ 5234 CMST& 102BP1 (5) Online McQuarrie

A survey of the mass media in America: newspapers, magazines, books, recorded music, radio, television, motion pictures, the World Wide Web: with emphasis on structure, function, audience, content, effect and social responsibility.

### Racism, Sexism and the Media (D)(H)

☎ 5231 CMST 104A4 (3) 12-12:50pm MWF WAH 115 Fisher  
Examine issues of race and gender in the media from both an historical and a current perspective.

### Public Speaking (H)

☎ 5235 CMST& 220A4 (5) 8-8:50am Daily TAC 340 McQuarrie  
☎ 5236 CMST& 220B4 (5) 9-9:50am Daily TAC 340 McQuarrie  
☎ 5237 CMST& 220C4 (5) 11-11:50am Daily WSC 204 Majors  
☎ 5238 CMST& 220D4 (5) 12-12:50pm Daily TAC 340 McQuarrie

Apply methods for managing speech anxiety, holding attention and making points in a variety of public speaking situations, including techniques for being credible and ethical. Communication theories and interpersonal skills also studied.

## COMMUNICATIONS

### Dragon NaturallySpeaking

5240 COMM 100A (2) 8-8:50am T WSC 101 Hoel  
☎ 5241 COMM 100BP1 (2) Online Hoel

Designed to assist students in the development of computer and English composition skills while using Dragon NaturallySpeaking (voice recognition) and text to speech software.

## COMPUTER AIDED DRAFTING

### CAD for Electronics

☎ 5161 CAD 110A4 (3) 11am-12:50pm TTh WAH 212 Alves  
Introduces students to the art and science of reading and creating electrical schematics from a Computer Aided Drafting perspective in the AutoCAD environment. Knowledge of component identification is required. Prerequisite: ERA 101. Lab fee \$15.

### CAD for Industry

☎ 5162 CAD 115A4 (3) 10-10:50am MTWTh WAH 212 Alves  
AutoCAD drawings, editing, dimensioning, drawing aids, layer control designed to develop basic computer-aided drafting skills that may be used in industry. Emphasis on creating basic drawings, blocks and plotting. Basic computer skills required.

## COOPERATIVE WORK EXPERIENCE

### Cooperative Work Experience

☐ 5242 COOP 190RE (1-12) ARR ARR MOR Barnes  
Cooperative Work Experience allows students to apply classroom learning to on-the-job settings. Credit is earned for new and continued learning taking place in the work environment. Reaching set learning objectives and development of positive work habits are emphasized. The Cooperative Education Faculty Coordinator, the student employee, and the worksite supervisor identify the learning objectives. 30-360 hrs on-the-job per quarter. Instructor's permission is required. Corequisite: Enrollment in a Work Experience Seminar is required of Co-op students. You take the Work Experience Seminar before or in the same quarter as the Co-op course.

## CRIMINAL JUSTICE

### Intro Criminal Justice

☎ 6106 CJ& 101AP1 (5) Online Belden  
Examines local, state and federal law enforcement agencies and the judicial and correctional systems. Career opportunities and qualifying requirements are studied.

### Intro to Law Enforcement

☎ 5223 CJ 104A3 (5) 9-9:50am MTWTh WAH 105 Gilbertson  
☎ 5224 CJ 104BP1 (5) Online Belden  
A broad survey of the theories, procedures and methods of police operations studied. Also examines police discretionary powers, career opportunities, and trends in law enforcement. Pre/corequisite: CJ& 101 or instructor permission. Lab fee \$14.86.

### Criminal Procedures

☎ 5225 CJ 107A3 (5) 10-10:50am MTWTh WAH 105 Gilbertson  
☎ 6107 CJ 107BP1 (5) Online Belden  
Examines state and federal laws of arrest, search and seizure, civil and criminal liability. The rules of evidence and courtroom proceedings are studied. Pre/corequisite: CJ& 101 or instructor permission. Lab fee \$14.86.

### Criminal Justice Ethics

☎ 5226 CJ 111AP1 (5) Online Belden  
Presents an in-depth examination and analysis of the practical, theoretical, ethical and moral considerations found in the criminal justice system. Pre/corequisite: CJ& 101 or instructor permission.

### Intro to Victimology

☎ 5228 CJ 129A3 (5) 12-1:50pm MW WAH 111 Gilbertson  
Introductory course examines violent crime and victimology in American society. Factors leading to acquaintance and stranger violence, proactive and reactive strategies to crime, legal issues and self-defense measures studied and discussed. Lab fee \$13.99.

### Criminal Interviews & Interrogations

☎ 5229 CJ 224A3 (5) 11-11:50am MTWTh WAH 105 Gilbertson  
Basic and intermediate skills required for criminal and forensic interviews and interrogations. Study, practice, role-play, and evaluate the techniques used to elicit factual information from victims, witnesses and suspects in the course of criminal investigations. Lab fee \$14.44.

## DIESEL EQUIPMENT TECHNOLOGY

### Forklift Certification

5244 DET	102A	(1)	8am-5pm	Sa	DSL 104	McCarthy
5245 DET	102B	(1)	8am-5pm	Sa	TEC 104	McCarthy

A comprehensive classroom training along with practical, hands-on instruction on forklift operation and safety. Course covers state and federal regulations and proper operator training. Students are awarded a certification card upon successful completion. Prerequisite: DET 100. Lab fee \$40

### Mobile Electrical Systems I

5246 DET	110A3	(7)	8-8:50am	MTWTh	DSL 104	McCarthy
			10am-2:30pm	MTWTh	TEC 106	McCarthy

The exploration and application of fundamental principles of direct current electrical systems found on mobile equipment. Prerequisite: DET 100 or instructor permission. Lab fee \$85.69. **Class meets 1/3 - 2/7.**

### Mobile Hydraulic Systems

5247 DET	130A3	(7)	8-8:50am	MTWTh	DSL 104	McCarthy
			10am-2:30pm	MTWTh	TEC 106	McCarthy

Students will be introduced to terminology, physical properties, and principles relating to mobile hydraulic equipment. Students will engage in practical exercises that will aid in the understanding of basic hydraulic systems. Prerequisite: DET 110 or instructor permission. Lab fee \$68.01. **Class meets 2/8 - 3/16.**

### Power Transmission II

5248 DET	210A3	(7)	8-8:50am	Daily	DSL 104	Conrad
			9-11:50am	MWF	TEC 106	Conrad
			9am-12:50pm	TTh	TEC 106	Conrad

The study of power shift and automatic transmissions as used in diesel powered equipment. Prerequisite: DET 125. Lab fee \$85.69. **Class meets 1/3 - 2/7.**

### Heavy-Duty Chassis Systems

5249 DET	225A3	(7)	8-8:50am	Daily	DSL 104	Conrad
			9-11:50am	MWF	TEC 106	Conrad
			9am-12:50pm	TTh	TEC 106	Conrad

The study and application of heavy duty chassis systems used in diesel powered equipment. Prerequisite: completion of 1st year diesel classes. Lab fee \$68.01. **Class meets 2/8 - 3/16.**

## DRAMA

### Dramatic Performance (H)

5258 DRMA	115A4	(5)	ARR	ARR	ARR	Kreilkamp
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For students involved in the creative/performance aspects of a play production, from audition through research/preparation for their portrayal and evaluation of their performance. The student must successfully audition and be cast in a college production. Prerequisite: audition selection for quarterly play production.

### Introduction to Playwriting (H)

5259 DRMA	120A4	(5)	10-10:50am	Daily	MSG 115	Kreilkamp
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Study the art and craft of writing for the stage. Students will be required to complete and oversee the production of a short play. Final performances of student works will be presented to the public.

## ECONOMICS

### Comparative Economic Systems

6154 ECON	180A4	(5)	12-12:50pm	Daily	WSC 107	Suozzo
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Course seeks to explore the major economic systems of history and their ramifications in terms of immigration, labor unions, money, taxes and trade, to name some.

### Microeconomics (SS)

5271 ECON&	201AT4	(5)	10-10:50am	Daily	WSC 211	Suozzo
5272 ECON&	201N3	(5)	5-6:50pm	W	WSC 206	Suozzo
5273 ECON&	201RT4	(5)	10-10:50am	Daily	MOR 110	Suozzo

Microeconomics is the study of households and firms and how they interact in markets under varying degrees of competition.

### Macroeconomics (SS)

5274 ECON&	202A4	(5)	9-9:50am	Daily	WSC 109	Suozzo
5275 ECON&	202B4	(5)	1-1:50pm	Daily	WSC 208	Suozzo

Macroeconomics is the study of how any system allocates limited resources to meet unlimited wants. Major concerns of macroeconomic policy are: inflation, full employment, national income accounting, fiscal policy, the money supply and trade.

## EDUCATION

### Child Development (formerly EDEC/EDUC 245)

5277 EDUC&	115A4	(5)	1-3:50pm	W	WSC 108	Spain
			1-3:50pm	W	WSC 108	Kirkpatrick
						+2 hrs/wk TBA

An in-depth study of the physical, emotional, social and mental development of children from conception through age eight. An understanding of family structures, interaction and function will be integrated throughout the developmental process.

### Guiding Behavior

5279 EDUC&	130AS1	(3)	Online			Price
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Examine the principles and theories promoting social competence in young children and creating safe learning environments. Develop skills promoting effective interactions while providing positive individual guidance and enhancing group experiences.

### School Age Care

5280 EDUC&	136AW1	(3)	Online			Staff
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Gain skills to provide developmentally appropriate and culturally relevant activities and care for school-age children. Focus is on preparing the environment, implementing curriculum, building relationships, guiding academic/social skill development, and community outreach.

### Intro to Education

5281 EDUC&	201A4	(3)	ARR	ARR	ARR	Spain
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Explore the role of education in our society and investigate teaching as a career. Both the historical perspective and current trends in education will be discussed.

### Classroom Observation

5276 EDUC	202A	(2)	ARR	T	ARR	Spain
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Students review teaching as a career. Students observe classrooms in action and attend seminars to discuss their findings. Students make arrangement with the instructor to start observations before quarter begins. Lab fee \$12.

### Exceptional Child

5282 EDUC&	203A	(3)	4-6:50pm	Th	WSC 108	Quentin
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Explains the role of Special Education in education systems. Provides techniques to work with the exceptional child in the classroom. Topics include exceptionality in all areas of development, diagnosis, communication, and working with family structures.



## EDUCATION-EARLY CHILDHOOD

### Child Care Basics

☎ 5260 ECED& 100AW1 (3) Online Staff  
Designed to meet licensing requirements for early learning providers, STARS 30 hour basic course recognized in MERIT system. Topics: child development, cultural competency, community resources, guidance, health/safety/nutrition and professional practice.

### Intro Early Child Ed

☎ 5261 ECED& 105AW1 (5) Online Staff  
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.

### Health/Safety/Nutrition

☎ 5262 ECED& 107AW1 (5) Online Staff  
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.

### Infants/Toddlers Care

☎ 5263 ECED& 132AW1 (3) Online Staff  
Examine the unique developmental needs of infants and toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally relevant care.

### Family Child Care

☎ 5264 ECED& 134AW1 (3) Online Staff  
Learn the basics of home/family child care program management. Topics include licensing requirements; business management, relationship building, health, safety, and nutrition, guiding behavior and promoting growth and development.

### Admin Early Lrng Prog

☎ 5265 ECED& 139AW1 (3) Online Staff  
Establish administrative skills required to develop, open, operate, manage, and assess early childhood education and care programs. Explore techniques and resources available that meet Washington State licensing and NAEYC standards.

### Curriculum Development

☎ 5266 ECED& 160AW1 (5) Online Staff  
Investigate learning theories and create curriculum that enhances the development of language, fine/gross motor, social-emotional, cognitive and creative skills in young children.

### Environments-Young Child

☎ 5267 ECED& 170A4 (3)	4:30-6:50pm	T	WSC 213	Kirkpatrick
	4:30-6:50pm	T	WSC 213	Wulff
	+ 1/2 hr/wk TBA			

Design and evaluate indoor and outdoor environments which ensure quality learning, nurturing experiences, and optimize the development of young children.

### Observation/Assessment

☎ 5269 ECED& 190A4 (3)	4-5:30pm	W	WSC 213	Spain
	4-5:30pm	W	WSC 213	Kirkpatrick
	+2.5 hrs/wk TBA			

Collect data to assess children. Use this data to plan for group and individual needs. Lab fee \$10.

## ELECTRONICS/ROBOTICS

See **MECHATRONICS** heading

## ENERGY TECHNOLOGY

### Power Generation

☎ 5559 PPO 102AT3 (5) 1-3:20pm M TAC 338 Crawford  
Focus will be on environmental issues surrounding power plants. Introduction to boilers including design and ancillary equipment. Prerequisite: PPO 100.

### BluePrint Reading

☎ 5560 PPO 120AT3 (5) 1-3:20pm W TAC 338 Crawford  
An in-depth study of construction blueprints for residential, commercial, and industrial facilities emphasizing interpretation as it applies to the energy and HVAC industries, and electrical distribution systems.

### Plant Maintenance

☎ 5561 PPO 202AT3 (5) 1-3:20pm T ARR Th TAC 338 Steidel  
TAC 338 Steidel

Provides a background in refrigeration, heating, ventilation and air conditioning; and lighting. Prerequisite: PPO 201.

### Power System Operator I

☎ 5562 PPO 205AT3 (5) 1-3:20pm Th TAC 338 Steidel

First in a two-class series: provides background to operate the American electrical grid system under North American electrical Reliability Corporation (NERC) required standards and prepares for NERC exam. Prerequisite: minimum 2.5 grade in PPO 201 or instructor permission.

## ENGINEERING

### Applied Numerical Methods

☎ 5322 ENGR 203A4 (5) 9-9:50am MTWTh WSC 106Threapleton  
12-1:50pm F WSC 106Threapleton

Numerical solutions to engineering and science problems using modern scientific computing tools. Application of mathematical judgment in selecting computational algorithms and communicating results. Introduction to MATLAB programming for numerical computation. Prerequisite: MATH& 152 (MATH 118 recommended) or instructor permission.

### Dynamics

☎ 5324 ENGR& 215A4 (5) 10-10:50am Daily WSC 108Threapleton

Second of a three-course sequence includes the study of kinematics and kinetics of a particle, work-energy, impulse-momentum, relative motion, and rigid-body mechanics. Vector methods will be stressed throughout. Prerequisite: MATH& 152.

### Research in Engineering

5323 ENGR 270A (12) ARR ARR ARR Threapleton  
Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

## ENGLISH

### Spelling

5283 ENGL 094N (1-5) 5-7:20pm TTh WSC 101 Shriver G

Topics covered in this course include basic spelling patterns, commonly confused words, apostrophe use, capitalization, plural formation, and how pronunciation helps to improve spelling. Students utilize materials according to pretesting information.

### Vocabulary Development I

5284 ENGL 095N (1-5) 5-7:20pm TTh **WSC 101** Shriver G

Builds a base of words used in everyday communication, provides systematic study, increases proficiency in oral and written communication and reading comprehension. Students are given a placement test and assigned materials at an appropriate level.

### Vocabulary Development II

5286 ENGL 096N (1-5) 5-7:20pm MW **WSC 101** Shriver G

Builds a base of words used in everyday communication, provides systematic study, increases proficiency in oral and written communication and reading comprehension. Students are given a placement test and assigned materials at an appropriate level.

### Vocabulary Development III

5287 ENGL 097N (1-5) 5-7:20pm MW **WSC 101** Shriver G

Course provides a systematic study of college level academic words and their roots, prefixes, and suffixes to increase proficiency in oral and written communication.

### Writing & Grammar Review

5288 ENGL 098A (1-5) 10-10:50am Daily WAH 113 Shriver G

5289 ENGL 098N (1-5) 5-7:20pm TTh **WSC 101** Shriver G

□ 5290 ENGL 098R (1-5) 12:30-2:50pm MW MOR 108 Nellis

☞ 5291 ENGL 098TC3 (1-5) 11:30am-12:50pm TWTh CTC Johnson R

Study proper word usage, sentence structure, and punctuation. Writing includes personal essays and summaries. Emphasis is on improving grammar and writing skills for personal needs and preparation for technical coursework. Prerequisite: students must meet mandatory placement requirements to enroll. Section TC3 is held at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville.

### Fundamentals of English

5292 ENGL 099B (1-5) 11-11:50am Daily WAH 113 Burr

5293 ENGL 099C (1-5) 12-12:50pm Daily WAH 103 Shriver G

5295 ENGL 099N (1-5) 5-7:20pm TTh **WSC 101** Shriver G

□ 5296 ENGL 099R (1-5) 12:30-2:50pm MW MOR 108 Nellis

☞ 5297 ENGL 099TC3 (1-5) 11:30am-12:50pm TWTh CTC Johnson R

Prepares students for college composition. Students analyze texts, review sentence structure and punctuation, and write several short essays and other writing. Students must meet mandatory placement requirements to enroll. Section TC3 is held at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville.

### English Composition I (C)

☞ 5301 ENGL& 101A3 (5) 8-8:50am Daily WSC 109 **Weber**

☞ 5302 ENGL& 101B3 (5) 9-9:50am Daily WAH 113 **Erickson**

5303 ENGL& 101C3 (5) 9-9:50am Daily MSG 115 **Weber**

☞ 5304 ENGL& 101D3 (5) 10-10:50am Daily WAH 109 **Williams A**

5305 ENGL& 101E (5) 11-11:50am Daily KMP 104 **Staff**

☞ 5306 ENGL& 101F3 (5) 11-11:50am Daily **TAC 340** **Williams A**

☞ 5307 ENGL& 101G3 (5) 12-12:50pm Daily WSC 110 **Waliezzer**

5308 ENGL& 101H3 (5) 1-1:50pm Daily WSC 111 **Williams A**

☞ 5310 ENGL& 101N3 (5) 5-6:50pm M WSC 111 **Williams A**

☞ 5312 ENGL& 101TC3 (5) 11:30am-12:50pm TWTh CTC Johnson R

☞ 5309 ENGL& 101JP1 (5) Online **Foss**

Expository writing course which encourages students to think and write with clarity, conciseness, and enjoyment; to organize and develop their ideas; and to express themselves sharply, economically, and grammatically. Prerequisite: students must meet mandatory placement requirements to enroll. A minimum score of 83 on the COMPASS test, a minimum score of 46 on the ASSET test, or completion of five credits of ENGL 099 with a minimum grade of 2.0. Section TC3 is held at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville.

### Composition II (C)

☞ 5313 ENGL& 102A3 (5) 8-8:50am Daily WSC 208 **Young**

☞ 5314 ENGL& 102B3 (5) 9-9:50am Daily WSC 208 **Weil**

☞ 5315 ENGL& 102C3 (5) 10-10:50am Daily WSC 206 **Waliezzer**

☞ 5316 ENGL& 102D3 (5) 11-11:50am Daily WSC 110 **Waliezzer**

☞ 5317 ENGL& 102E3 (5) 12-12:50pm Daily **WSC 101** **Erickson**

☞ 5318 ENGL& 102F3 (5) 1-1:50pm Daily WSC 206 **Young**

☞ 5319 ENGL& 102GP1 (5) Online **Davidson**

A course in argumentative and persuasive writing, methods of research, development and preparation of original source-based papers and projects. Prerequisite: completion of ENGL& 101 with a minimum grade of 2.0.

### Short Fiction (H)

☞ 5298 ENGL 180R4 (5) 12-2:30pm TTh MOR 108 **Barnes**

Survey of short story as representational vehicle in romanticism, realism, modernism, horror, satire, science fiction, magical realism. Primarily American in focus; includes cross-cultural comparisons. College-level reading, writing skills expected. Creative writing options. Prerequisite: college level reading and writing skills.

### Intro to Creative Writin (H)

☞ 5299 ENGL 208AP1 (5) 10-10:50am Daily **WSC 110** **Young**

Writers will move beyond the traditional "academic essay" into an exploration of literary genres to include poetry, creative nonfiction, short fiction, and drama. Prerequisite: college-level writing: test into ENGL& 101.

### Technical Writing (C)

☞ 5320 ENGL& 235A3 (5) 12-12:50pm MTWTh **WSC 206** **Weil**

☞ 5321 ENGL& 235BP1 (5) Online **Williams M**

An alternative to ENGL& 102 for science and engineering majors, focused on writing with clarity, objectivity, audience awareness, proper formats as well as research techniques, problem-solving, critical thinking and development of source-based writing. Prerequisite: completion of ENGL& 101 with a minimum grade of 2.0.

### Non-Western World Literature (H)(D)

☞ 5300 ENGL 260A3 (5) 11-11:50am Daily WSC 206 **Weil**

Literature of the non-western world, ancient times to the present: Middle East, India, Africa, China, Japan, Americas focusing on how literature expresses these cultures' spiritual traditions, political values, gender issues, environmental beliefs. Prerequisite: ENGL& 101 with 2.0 or better or instructor permission.

### Writing in the Workplace

☞ 5612 WRT 105A4 (5) 10-10:50am Daily WAH 205 **Erickson**

☞ 5613 WRT 105BP1 (5) Online **Foss**

Study a variety of workplace communications, along with proper use of grammar, sentence structure, mechanics and vocabulary within those communications. Prerequisite: ENGL 098 or equivalent score on Compass/Asset test.

## ENVIRONMENTAL SCIENCE

### Survey of Env Science (S)

☞ 5326 ENV&S 100A3 (5) 12-12:50pm MTWTh WSC 111 **Tonn N**

+1 hr/wk

☞ 5327 ENV&S 100BP1 (5) Online **Carlson L**

An interdisciplinary course for both non-science majors and beginning science students. Topics include biodiversity, climate, pollution, energy, and food. Students cannot receive credit for both ENV&S 100 and ENV&S 101.

**Natural Resources Mgmt (S)**

☞ 5325 ENVS 170A3 (5) 10-10:50am MTWTh WSC 111 Carlson L  
+1 hr/wk

What are Pacific Northwest forests, fishes and wildlife? Learn some common species, historical human uses, what policies drive their management, how to conserve them for future use, and how to plan for a career in the field.

**GEOLOGY****Intro Physical Geology (S)**

☞ 5333 GEOL& 101A4 (5) 9-9:50am MTWTh WSC 105 Harris  
1-2:50pm W WSC 105 Harris  
☞ 5334 GEOL& 101B4 (5) 9-9:50am MTWTh WSC 105 Harris  
3-4:50pm W WSC 105 Harris

Explore and recognize earth materials, processes and structures within a plate tectonics framework; origin and structure of the Earth, rocks and minerals, geologic time, earthquakes and volcanoes, ocean basins, formation of landscapes, special topics. Lab fee \$28.36.

**Historical Geology w/Lab**

6136 GEOL& 103A4 (5) 10-10:50am MTWTh WSC 105 Harris  
1-2:50pm Th WSC 105 Harris  
6137 GEOL& 103B4 (5) 10-10:50am MTWTh WSC 105 Harris  
3-4:50pm Th WSC 105 Harris

Evolution of Earth and life as interpreted through the fossil and rock record. Includes fossils, relative and numerical-age dating, stratigraphic principles, global change, and the geologic history of the North American continent. Includes lab.

**Natural Hazards and Catastrophes (S)**

☞ 6138 GEOL& 108A4 (5) 11-11:50am MTWTh WSC 105 Harris  
1-2:50pm T WSC 105 Harris  
☞ 6139 GEOL& 108B4 (5) 11-11:50am MTWTh WSC 105 Harris  
3-4:50pm T WSC 105 Harris

An examination of earth materials and processes through the study of earthquakes, volcanoes, landslides, floods, tsunamis, hurricanes, tornadoes, wildfires, and meteorite impacts. Examination of causes and effects on human populations and the environment; preparedness, prediction and forecasting; mitigation of risks, and case studies. Lab fee \$28.36.

**Research in Geology**

5332 GEOL 270A (1-12) ARR ARR ARR Harris

Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

**HEALTH****Health & Wellness (HF)**

☞ 5350 HLTH 130A4 (3) 9-9:50am MWF MSG 106 Johnson C  
☞ 5351 HLTH 130RP1 (3) Online Jones

An exploration of current personal health issues and a presentation of contemporary approaches to obtaining and maintaining a high level of wellness. Lab fee \$3.10.

**Healthy Weight Control (HF)**

☞ 5352 HLTH 135A4 (2) 9-9:50am TTh MSG 106 Oien

An introduction to healthy eating that focuses on a balance of foods, including a variety of lifestyle change strategies that will enhance the maintenance of a healthy weight. Lab fee \$3.10.

**Exercise & Nutrition (HF)**

☞ 5353 HLTH 140AP1 (3) Online Sanchez

Two core components of a healthy lifestyle - a healthy diet and a safe exercise program - will be explained and developed. Students are expected to exercise outside of class time. Lab fee \$3.10.

**Stress Management (HF)**

☞ 5354 HLTH 143A3 (2) 11-11:50am TTh MSG 106 Johnson C  
☞ 5355 HLTH 143BP1 (2) Online Johnson C

Understand how stress can impact quality of life. Learn methods for identifying stressors and strategies to effectively manage them. Construct a personalized stress management program.

**Technology Health/Fitness (HF)**

☞ 5356 HLTH 144A4 (2) 11-11:50am MW MSG 106 Johnson C

Explore current uses of technology for adherence, motivation and monitoring of health and fitness behaviors. Areas covered will be digital coaching, fitness monitors and trackers, downloadable applications and peer to peer or social apps.

**Safety and Fitness (HF)**

☞ 5357 HLTH 145A4 (3) 8-8:50am MWF MSG 115 Sanchez  
☞ 5358 HLTH 145BP1 (3) Online Johnson C  
☞ 5359 HLTH 145CP1 (3) Online Johnson C

The course emphasizes the importance of safety, first aid, and exercise as they relate to an individual's level of health and fitness. The course includes the American Heart Association Heartsaver First Aid/CPR and AED certification. **Online sections include required, on-campus lab. Online students must attend one of the in-person training days. Choose March 5, 1-5:30pm OR March 8, 3-7:30pm.** Lab fee \$48.25.

**Community First Aid and CPR**

5360 HLTH 154A (1) 8:30am-4pm Sa MSG 106 Layton  
5361 HLTH 154B (1) 8:30am-4pm Sa MSG 106 Layton  
5362 HLTH 154C (1) 8:30am-4pm Sa MSG 106 Layton  
5363 HLTH 154D (1) CANCELED  
5364 HLTH 154E (1) CANCELED

Basic First Aid/CPR/AED class covering critical skills needed to respond to and manage first aid, choking or sudden cardiac arrest emergencies in the first few minutes until emergency medical services (EMS) arrives. Lab fee \$44.23. Section A meets 1/20/18; section B meets 2/17/18; section C meets 11/11/17.

**HISTORY****Western Civilization II (SS)**

5340 HIST& 117A (5) 10-10:50am Daily WSC 204 Peterson J

Analysis of the modern state with emphasis on the Renaissance, the Reformation, Absolutism, Scientific and Political Revolutions.

**US History II (SS)**

5341 HIST& 147A (5) 12-12:50pm Daily WSC 204 Peterson J

Analysis of American history from Antebellum Era to the Progressive Era. Emphasis will be on the political, social, and economic changes.

**US History III (SS)**

☞ 5342 HIST& 148AP1 (5) Online Mayfield

Analysis of American history from World War One to the present. Emphasis will be on the political, social, and economic changes.

**Pacific NW History (SS)**

☞ 5343 HIST& 214AP1 (5) Online Mayfield

Study of the early exploration and settlement of the Pacific Northwest. Emphasis will be on the economic, political and social developments. The course is designed to meet state certification requirements for teachers.

## HUMAN RELATIONS

### Human Relations-Workplace

☰	5336	HR	110A3	(5)	9-9:50am	MWF	WAH 115	Smejkal
☰	5338	HR	110B3	(5)	10-10:50am	MWF	WAH 115	McClain
☰	5337	HR	110C3	(5)	12-12:50pm	MWF	WAH 109	McClain
☰	5339	HR	110DS1	(5)	Online			Smejkal

Study of behavior, personality, self-management, self-development, and elementary business psychology in the workplace. Focus on understanding and demonstrating skills imperative to workplace success including communications, personal attitude, motivation, and workplace etiquette. Lab fee \$5.

## HUMANITIES

### Humanities II (H)

☰	5368	HUM&	117A4	(5)	9-9:50am	Daily	WAH 109	Mitchler
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A survey of the major movements in art, architecture, music, philosophy, and literature in a historical context, from 1300 C.E. to 1800 C.E.

### Survey of Film Studies (H)

☰	5365	HUM	270A4	(5)	1-3:20pm	TTh	WAH 109	Mitchler
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An examination of the social, historical, technical, and artistic aspects of film through viewing, study and discussion of notable motion pictures.

### Lyceum II

	5366	HUM	282A	(1)	1-1:50pm	W	WAH 103	Bannish
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The Lyceum offers a variety of lectures on topics of current interest across a wide variety of disciplines. The theme vary from quarter to quarter.

## INFORMATION TECHNOLOGY

### Intro to Windows OS

☰	5369	IT	117A3	(3)	8-8:50am	MWF	WAH 211	Alves
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An introduction to Windows Operating System. Course will cover such things as the taskbar, Start menu, recycle bin, windows views, Window Explorer, storage devices, printing, saving, control panels, etc. Lab fee \$25.

### Desktop OS 3

☰	6108	IT	125A3	(4)	11-11:50am	MTWTh	WAH 216	Allison
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This is a third course based on Comp IAA+ and Linux+ certification materials. Material covered includes advanced trouble-shooting, more advanced systems configuration and cmd/shell scripting. Prerequisite: IT 124 or CNT 124. Lab fee \$25.

### Relational Databases

☰	5374	IT	150A3	(5)	9-9:50am	MTWTh	WAH 211	Kerschner
☰	5375	IT	150B3	(5)	10-10:50am	MTWTh	WAH 211	Kerschner

Students learn the tools and processes for data modeling in Relational Database Management Systems. Topics include Structured Query Language (SQL), functional dependencies, normalization, database design methodologies and entity relationship modeling. Lab fee \$50.

### Network Technology 1

☰	5377	IT	201A	(5)	10-10:50am	MWF	TAC 332	Whalen
					10-10:50am	TTh	TAC 331	Whalen

This is the first course based on CompTIA Network+ certification materials. material covered includes fundamental concepts, implementation and terminology relating to LANs, WANs, Internet-working, VLANs, Routing Basics and Wireless Networking. Prerequisite: MATH 098. Lab fee \$50.

### Server OS 1

☰	6109	IT	218A3	(4)	9-9:50am	MTWTh	WAH 216	Allison
☰	6110	IT	218B3	(4)	10-10:50am	MTWTh	WAH 216	Allison

This is a first course on server installation, configuration and management. Coverage includes Active Directory fundamentals, SSH, DHCP, DNS and the basics of setting up and managing a web server. Prerequisite: IT 123 and IT 124. Lab fee \$25.

### Server OS 2

☰	5380	IT	219A3	(4)	1-1:50pm	MTWTh	WAH 216	Allison
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This is the second course on server installation, configuration and management. Coverage includes server content management systems, PHP, Microsoft Exchange and Office 365. Prerequisite: IT 218. Lab fee \$25.

### JAVA 2

☰	5381	IT	228A3	(5)	12-12:50pm	MWF	WAH 211	Carlson C
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Second course in the introduction to JAVA programming sequence. These topics include: abstract data structures, lists, stacks, queues, linked lists, maps, recursion, interfaces, encapsulation, serialization, file access, sorting and computational complexity. Prerequisite: IT 224. Lab fee \$25.

### CISCO Networking

☰	6111	IT	235A3	(4)	2-3:50pm	MTWTh	WAH 216	Allison
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Utilizing CISCO equipment and operating systems, students will gain the ability to install, operate and troubleshoot network environments. This course is based upon the skills needed to achieve a Cisco Certified Entry Networking Technician certification. Lab fee \$50.

### Discrete Structures

☰	6112	IT	250A3	(4)	1-1:50pm	MTWTh	WAH 211	Staff
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A programming-based course in discrete structures. Logic, set theory, counting, algorithmic efficiency, graphs and trees are presented. This course uses programming algorithms to demonstrate and explore the discrete math topics commonly used in computer programming. Lab fee \$50.

### Design Patterns

☰	6113	IT	255A3	(4)	11-11:50am	MTWTh	WAH 211	Kerschner
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This course builds upon object-oriented design methodologies and introduces the concept of design patterns to solve software problems. The well known "Gang of Four (GoF)" patterns are explored. Lab fee \$50.

### Computer Science I C++

☰	5243	CS&	131A3	(5)	1-2:50pm	TTh	WAH 211	Gul
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Intended as an introduction to programming. Emphasis is on the features of the "C" programming language with an introduction to C++ object oriented programming and good programming style. Lab fee \$31.88.

## INTENSIVE ENGLISH PROGRAM

### Comprehension Language 1 - 4

☰	5384	IEP	070A4	(1-9)	2-3:50pm	Daily	WSC 101	Lovelett
☰	5386	IEP	072A4	(1-9)	2-3:50pm	Daily	WSC 101	Lovelett
☰	5388	IEP	074A4	(1-9)	2-3:50pm	Daily	WSC 101	Lovelett
☰	5390	IEP	076A4	(1-9)	2-3:50pm	Daily	WSC 101	Lovelett

Students will develop listening and reading comprehension skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test score or Accuplacer score.

**Communicative Language 1 - 3**

☞	5385	IEP	071A4	(9)	9-10:50am	Daily	LIB 125	Burr
☞	5387	IEP	073A4	(9)	9-10:50am	Daily	LIB 125	Burr
☞	5389	IEP	075A4	(9)	9-10:50am	Daily	LIB 125	Burr

Students will develop speaking, grammar, and composition skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test score or Accuplacer score. Lab fee \$20.

**Communicative Language 4**

☞	5391	IEP	077A4	(9)	9-10:50am	Daily	LIB 125	Burr
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In this Level 4 Comm Language course, students will develop speaking, grammar, and composition skills needed to succeed in subsequent liberal arts and technical/occupational courses. Lab fee \$44.95.

**MATHEMATICS****Basic Mathematics**

☞	5406	MATH	095A4	(1-5)	7-8:50am	Daily	LIB 003B	Spitzer
					7-8:50am	Daily	LIB 112	Spitzer
☞	5407	MATH	095B4	(1-5)	9-9:50am	Daily	LIB 003B	Spitzer
☞	5408	MATH	095C4	(1-5)	1-3:20pm	MTWTh	LIB 003B	Spitzer
					1-3:20pm	MTWTh	LIB 112	Keahey
☞	5409	MATH	095N4	(1-5)	4:30-6:50pm	MTWTh	LIB 112	Palkowski
☞	5410	MATH	095S4	(1-5)	4:30-6:50pm	MW	MOR 108	Winkler

For students who need to review basic math concepts such as whole number, fraction and decimal operations. Appropriate placement test scores.

**Pre-Algebra**

☞	5411	MATH	096A4	(1-5)	7-8:50am	Daily	LIB 003B	Spitzer
					7-8:50am	Daily	LIB 112	Spitzer
☞	5412	MATH	096B4	(1-5)	9-9:50am	Daily	WSC 211	Ziegler
☞	5413	MATH	096C4	(1-5)	10-10:50am	Daily	WSC 215	Brosz
☞	5414	MATH	096D4	(1-5)	1-3:20pm	MTWTh	LIB 003B	Spitzer
					1-3:20pm	MTWTh	LIB 112	Keahey
☞	5415	MATH	096N4	(1-5)	4:30-6:50pm	MTWTh	LIB 112	Palkowski
☞	5416	MATH	096S4	(1-5)	4:30-6:50pm	MW	MOR 108	Winkler

Covers percents, proportions, unit conversions, geometry, simplifying algebraic expressions and solving simple first degree linear equations. Prerequisite: MATH 095 or appropriate test score placement. Students enrolling in section D4 have the opportunity to complete MATH 096, 098, and 099 in one quarter.

**Algebra for Statistics**

☞	5417	MATH	097A4	(5)	8-8:50am	Daily	WSC 215	Brosz
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An algebra course for students intending to enroll in MATH& 146, Introduction to Stats. This course does not meet the algebra prerequisite or other quantitative skills courses or for transfer to the University of Washington. Prerequisite: MATH 096 or Compass score of 78+.

**Algebra I**

☞	5418	MATH	098A4	(1-5)	7-8:50am	Daily	LIB 003B	Spitzer
					7-8:50am	Daily	LIB 112	Spitzer
☞	5419	MATH	098B4	(1-5)	10-10:50am	Daily	WSC 107	Ziegler
☞	5420	MATH	098C4	(1-5)	11-11:50am	Daily	WSC 215	Brosz
☞	5421	MATH	098D4	(1-5)	1-3:20pm	MTWTh	LIB 003B	Spitzer
					1-3:20pm	MTWTh	LIB 112	Keahey
☞	5423	MATH	098N4	(1-5)	4:30-6:50pm	MTWTh	LIB 112	Palkowski
☞	5424	MATH	098S4	(1-5)	4:30-6:50pm	TTh	MOR 108	Winkler
☞	5425	MATH	098TC3	(1-5)	ARR	MW	CTC	Griffith
☞	5422	MATH	098EP1	(1-5)	Online			Ziegler

For students with good arithmetic skills and familiarity with signed numbers and basic algebraic expressions. Problem-solving skills are emphasized. Topics include: linear equations and inequalities, graphing, polynomials, and rational expressions. Prerequisite: MATH 096. Students enrolling in section D4 have the opportunity to complete MATH 096, 098, and 099 in one quarter. Section TC3 is held at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville.

**Algebra II**

☞	5426	MATH	099A4	(1-5)	7-8:50am	Daily	LIB 003B	Spitzer
					7-8:50am	Daily	LIB 112	Spitzer
☞	5427	MATH	099B4	(1-5)	9-9:50am	Daily	WSC 215	Brosz
☞	5428	MATH	099C4	(1-5)	11-11:50am	Daily	WSC 107	Ziegler
☞	5429	MATH	099D4	(1-5)	1-3:20pm	MTWTh	LIB 003B	Spitzer
					1-3:20pm	MTWTh	LIB 112	Keahey
☞	5431	MATH	099N4	(1-5)	4:30-6:50pm	MTWTh	LIB 112	Palkowski
☞	5432	MATH	099S4	(1-5)	4:30-6:50pm	TTh	MOR 108	Winkler
☞	5430	MATH	099EP1	(1-5)	Online			Ziegler

Introduces the concept of functions, their graphs and properties. Particular attention will be paid to linear, quadratic, exponential and logarithmic functions. Prerequisite: MATH 098 or equivalent. Students enrolling in section D4 have the opportunity to complete MATH 096, 098, and 099 in one quarter.

**Math in Society (M)**

☞	5436	MATH&	107A4	(5)	1-1:50pm	Daily	WSC 204	Griffith
☞	5438	MATH&	107TC4	(5)	10:15-11:20am	MTWTh	CTC	Griffith
☞	5437	MATH&	107BP1	(5)	Online			Staff

Designed to enhance math proficiency of liberal arts students as they meet personal and professional demands. Includes mathematics in management, statistics, probability, art, and other practical applications in society. Not preparation for calculus. Prerequisite: MATH 099 or equivalent. Section TC4 is held at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville.

**Math for Elem Educ 1 (M)**

☞	5439	MATH&	131A4	(5)	12-1:50pm	MWF	WSC 109	Taylor
☞	5440	MATH&	131BP1	(5)	Online			Tveten

Designed to provide the conceptual framework for teaching mathematics from kindergarten through eighth grade. Prerequisite: MATH 099 or equivalent ASSET/COMPASS score.

**Pre-Calculus I (M)**

☞	5441	MATH&	141A4	(5)	11-11:50am	Daily	WSC 208	Staff
☞	5442	MATH&	141NT4	(5)			CANCELED	
☞	5443	MATH&	141ST4	(5)			CANCELED	

Study of elementary functions (polynomial, exponential, logarithmic), systems of equations, matrix algebra. Modeling and problem solving techniques are emphasized from a graphic, symbolic and numeric perspective. Prerequisite: MATH 099 or equivalent placement.

**Pre-Calculus II (M)**

☞	5444	MATH&	142A4	(5)	8-8:50am	Daily	WAH 103	Carlson C
☞	5445	MATH&	142BP1	(5)	Online			Kiekel

Graphical, numerical, symbolic development of trigonometric functions and their inverses as defined on the unit circle and right triangles; identities, equations, and applications; complex numbers, polar coordinates, parametric equations, vectors, conics, and sequences and series. Prerequisite: MATH& 141.

**Statistics Prep Seminar**

☞	5433	MATH	145A3	(1)	11-11:50am	Daily	WAH 214	Kiekel
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Refreshes and enhances the necessary prerequisite skills for a college-level statistics course. Topics include algebra for statistics, spreadsheet software skills, and probabilistic reasoning. Prerequisite: MATH 097, 099 or equivalent, or instructor permission. Class meets 1/3 - 1/24.

### Introduction to Stats (M)

☎ 5446	MATH& 146A4	(5)	9-9:50am	Daily	WSC 206	Taylor
☎ 5447	MATH& 146B4	(5)	12-12:50pm	Daily	WSC 213	Kiekel
☎ 5448	MATH& 146CP1	(5)	Online			Kostick

Introduction to concepts of data collection, organization and summaries. Develop the fundamental concepts of mean, median and standard deviation, probability, probability distributions, and apply these ideas to hypothesis testing, linear regression and analysis of variance. Prerequisite: MATH 097, MATH 099 or equivalent.

### Calculus I (M)

☎ 5450	MATH& 151A4	(5)	9-9:50am	Daily	WSC 111	Carlson C
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The first in a four-quarter sequence. Limits, derivatives of algebraic and some transcendental functions, applications of derivatives, the indefinite integral. Topics covered from numerical, analytical and graphical viewpoints. Prerequisite: MATH& 142 or equivalent.

### Calculus III

☎ 5451	MATH& 163A4	(5)	11-11:50am	Daily	WSC 101	Carlson C
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Third in a four-quarter sequence. Polar coordinates, parametric equations, vectors, and vector fields, the analytic geometry of three-space, partial derivatives, and multiple integrals. Prerequisite: MATH& 152 or equivalent.

### Industrial Math

☎ 5604	TMATH 116A4	(5)	9-9:50am	Daily	TAC 338	Kiekel
			9-9:50am	Daily	TAC 338	Steidel

Application of basic mathematical operations to specific workforce programs including common fractions, decimal fractions, percentages, ratio and proportion, practical algebra, and computations involving rectangles and triangles. Emphasizes the use of mathematics in diesel and welding. Prerequisite: MATH 095.

### Electronics Math 1

5605	TMATH 121A	(5)	8-8:50am	Daily	TAC 332	Peterson D
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Students will be introduced to math concepts relating to electronics and robotics. Topics studied will include functions, direct and inverse relationships, unit analysis, calculator operation, linear and exponential equations, and spreadsheet math operations. Prerequisite: MATH 098.

## MECHATRONICS

### AC/DC Electronics

5452	MEC 116A	(4)	9-9:50am	MWF	TAC 331	Whalen
			9-9:50am	TTh	TAC 331	Whalen

Basic analysis and troubleshooting of Direct and Alternating current circuits including Ohm's Law, Watt's Law, and Kirchoff's Laws; devices such as resistors, capacitors, and transformers are studied. Prerequisite: MATH 098 or equivalent. Lab fee \$67.

### Machine Tool Operations

6116	MEC 120A	(6)	12-1:50pm	MTWTh	TAC 332	Whalen
			12-12:50pm	F	TAC 332	Whalen

Introduction to machining operations. Emphasis on safe application of the most common machining procedures and machines used by multi-skilled industrial maintenance technicians. Lab fee \$100.50.

### Power Transmission

5453	MEC 152A	(3)	10-10:50am	MTWTh	TAC 333	Peterson D
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Continuation of MEC 151, course includes study of power transmission components including bearings, brakes and gear systems. Concepts will also include vibration analysis, heat control and maintenance, and gear/cam systems. Prerequisite: MEC 151 Lab fee \$50.25.

### Hydraulic Systems

5454	MEC 153A	(5)	11-11:50am	MWF	TAC 332	Steidel
			10-11:50am	TTh	TAC 332	Steidel

Introduction to fluid power - hydraulics and pneumatics. Safe operation of fluid systems will be emphasized. Course covers fluid characteristics, component symbols, control valves, pumps and reservoirs. Lab fee \$83.75.

### Preventative Maintenance

5455	MEC 155A	(3)	8-8:50am	MWF	TAC 333	Whalen
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Basic Preventive and predictive maintenance procedures. Topics include facility upkeep, safety monitoring and risk management, teardown and inspection techniques, and technologies used in PM procedures. Prerequisite: MEC 151. Lab fee \$50.25.

### Robotic Controllers

6114	ERA 230A	(4)	11-11:50am	Daily	TAC 331	Peterson D
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Introduction to robotic control systems and input/output processing. Platforms studied will include microcontrollers, computer numerically controlled (CNC) machines, various types of motor drive controllers and integration of input devices and sensors into algorithms to drive outputs. Prerequisite: TMATH 122 or equivalent. Lab fee \$25.

### Amplifiers

6115	ERA 240A	(5)	12-12:50pm	MWF	TAC 331	Peterson D
			12-1:50pm	TTh	TAC 331	Peterson D

Amplifier applications in audio and industrial settings. Topics will include small and large signal voltage and current amplifiers, analog and solid state configurations and applications to audio, sensing and measurement, and digital comparison circuits. Prerequisite: ERA 170. Lab fee \$30.

## MEDIA STUDIES

### Sports Announcing for Basketball

☎ 5398	M ST 127A4	(1)	2-2:50pm	W	WAH 115	Fisher
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Learn and apply the basic skills and knowledge required of today's basketball announcers. This course will emphasize practical tips, ideas and theories that will help you on your way to becoming a quality basketball announcer.

### Advanced Radio Broadcasting

☎ 5399	M ST 231A4	(3)	12-12:50pm	TTh	WAH 115	Fisher
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Learn strategies to research and prepare material for broadcast. The use of promotions and contests to increase station ratings also will be covered. Lab fee \$17.94.

### Adv TV & Video Production for Electronic Media

☎ 5400	M ST 261A4	(5)	1-1:50pm	MWF	WAH 140	Fisher
			1-2:50pm	TTh	WAH 140	Fisher

Improve editing skills while producing documentary and music videos. Advanced camera, editing, studio and field production techniques will be covered. Students will also take part in producing live college basketball games. Lab fee \$17.94.

### Radio Broadcasting Internship I - IV

☎ 5401	M ST 271A4	(1)	ARR	ARR	WAH 140	Fisher
☎ 5402	M ST 272A4	(2)	ARR	ARR	WAH 140	Fisher
☎ 5403	M ST 273A4	(3)	ARR	ARR	WAH 140	Fisher
☎ 5404	M ST 274A4	(4)	ARR	ARR	WAH 140	Fisher

Practice and perfect your announcing skills on the campus radio station KCED FM. Prerequisite: M ST 230, 231 or permission of the instructor.

**TV Broadcasting Internship**

☎ 5405 M ST 281A4 (1) ARR ARR WAH 140 Fisher  
Designed for students who wish to produce independent video projects outside of the classroom environment. Permission of instructor required. Prerequisite: M ST 260, 261, 262.

**MEDICAL ASSISTANT**

**Medical Math**

5392 MA 130A (5) 8-8:50am Daily WAH 105 Steidel  
A mathematics course that focuses on solving applications using percent, proportion, and unit conversion as well as descriptive data interpretation. Satisfies the math requirement for Medical Assistant AAS. Prerequisite: MATH 096 or equivalent.

**MA Medical Terminology**

☐☎ 5394 MA 139R3 (5) 12-1:20pm TThF MOR 108 Jones  
A required class for all students enrolled in the Medical Assistant Program to develop a medical vocabulary from an anatomy, physiology, and pathology format. It is suitable for others entering medical-related fields. Lab fee \$5.

**Medical Administration**

5396 MA 242A (7) 8:30-10:50am MTWTh WAH 146 Boerner  
An overview of pharmacology and medication administration as it applies to the medical assistant's responsibilities in ambulatory care. Prerequisite: Acceptance into 2nd year MA program. Lab fee \$65.

**MA Laboratory Procedures**

5397 MA 246A (10) 11:30am-2:30pm MTWTh WAH 146 Boerner  
9-11:50am F WAH 146 Boerner  
Overview of laboratory procedures and regulations for the ambulatory health care setting, including phlebotomy training. Prerequisite: Acceptance into 2nd year MA program. Lab fee \$53.16.

**MUSIC**

**Music Appreciation (D) (H)**

☎ 5510 MUSC& 105AP1 (5) Online May  
Developing an understanding of music through the study of musical elements and cultural contexts.

**Broadway Today (H)**

☎ 6148 MUSC 118A4 (5) 11-11:50am Daily NRA Kreilkamp  
Study of current musicals including: Broadway musicals, television musicals and animated musicals. The following components will be examined: music, lyrics, plot, choreography, set design, costumes, generation of revenue, musical awards, and role of the critic.

**Jazz Ensemble I - VI**

☎ 5465 MUSC 124A4 (2)	5-6:50pm	TTh	WAH 107	Lopez
☎ 5466 MUSC 125A4 (2)	5-6:50pm	TTh	WAH 107	Lopez
☎ 5467 MUSC 126A4 (2)	5-6:50pm	TTh	WAH 107	Lopez
☎ 5468 MUSC 127A4 (2)	5-6:50pm	TTh	WAH 107	Lopez
☎ 5469 MUSC 128A4 (2)	5-6:50pm	TTh	WAH 107	Lopez
☎ 5470 MUSC 129A4 (2)	5-6:50pm	TTh	WAH 107	Lopez

Performing ensemble made up of students and community members. The ensemble's instrumentation is flexible, depending on availability of musicians. One evening rehearsal and one evening concert will be required. Off campus performances be required. Lab fee \$17.49.

**Beginning Guitar**

5471 MUSC 135A (2) 1:30-3pm TTh WAH 107 Tillinghast  
Presents the basic skills for reading and techniques needed to play the guitar. Intended for students with little or no background in guitar performance. Students must supply their own acoustic guitar.

**Music of the World (D)(H)**

5472 MUSC 139A (5) 9-9:50am Daily WAH 103 O'Donel  
A music survey of diversity found in music around the world. Examines music as accompaniment to ceremony and ritual, aid to work and routine, and an expression of universal unchanging human emotions. Prior musical experience is not necessary. Prerequisite: proficiency in reading, grammar skills.

**History of American Popular Music (D)(H)**

☎ 6146 MUSC 140AP1 (5) Online May  
This course offers students a thorough and general study of American Music from Tin Pan Alley to the first part of the 21st century.

**Music Theory I (H)**

☎ 5512 MUSC& 141A4 (5) 9-9:50am Daily WAH 125 May  
A study of musical concepts, such as pitch and rhythmic notation, scales and modes, key signatures, intervals, seventh chords and triads. Prerequisite: MUSC 100 or placement by instructor.

**Music Theory II (H)**

☎ 5513 MUSC& 142A4 (5) 10-10:50am Daily WAH 125 May  
A study of musical concepts, including 16th and 18th century counterpoint, part writing, and musical phrases. Prerequisite: MUSC& 141

**Choir I - VI**

☎ 5473 MUSC 144A4 (2)	3-3:50pm	MWF	WAH 107	Jardine-Tobin
☎ 5474 MUSC 145A4 (2)	3-3:50pm	MWF	WAH 107	Jardine-Tobin
☎ 5475 MUSC 146A4 (2)	3-3:50pm	MWF	WAH 107	Jardine-Tobin
☎ 5476 MUSC 147A4 (2)	3-3:50pm	MWF	WAH 107	Jardine-Tobin
☎ 5477 MUSC 148A4 (2)	3-3:50pm	MWF	WAH 107	Jardine-Tobin
☎ 5478 MUSC 149A4 (2)	3-3:50pm	MWF	WAH 107	Jardine-Tobin

A vocal group consisting of the part distribution: soprano, alto, tenor, and bass. Will perform both sacred and secular music literature. Participation in one evening concert per quarter is mandatory. Previous choral experience not necessary. Lab fee \$17.49

**Applied Flute**

5479 MUSC 150A (1) ARR ARR ARR O'Donel

**Functional Piano II**

6144 MUSC 152A4 (1) 4-4:50pm MW WAH 125Jardine-Tobin  
Functional piano study/skill for music majors. A practical course to accompany the music theory courses. Co-requisite: Simultaneous enrollment in music theory class. Pre-requisite: MUSC 151.

**Applied French Horn**

5480 MUSC 154A (1) ARR ARR ARR Blaser

**Applied Trumpet**

5481 MUSC 155A (1) ARR ARR ARR Blaser

**Applied Trombone**

5482 MUSC 156A (1) ARR ARR ARR Blaser

**Applied Tuba**

5483 MUSC 157A (1) ARR ARR ARR Blaser

**Applied Euphonium**

5484 MUSC 158A (1) ARR ARR ARR Blaser

**Applied Percussion**

5485 MUSC 159A (1) ARR ARR ARR Blaser

**Applied Piano**

☎ 5486 MUSC 160A4 (1) ARR ARR ARR May

**Applied Violin**

5487 MUSC 161A (1) ARR ARR ARR Scarborough

**Applied Viola**

5488 MUSC 162A (1) ARR ARR ARR Scarborough

**Applied Cello**

5489 MUSC 163A (1) ARR ARR ARR Staff

**Applied Double Bass**

5490 MUSC 164A (1) ARR ARR ARR Staff

**Applied Guitar**

5491 MUSC 165A (1) ARR ARR ARR Tillinghast

**Applied Saxophone**

5492 MUSC 166A (1) ARR ARR ARR Blaser

**Applied Voice**

5493 MUSC 167A (1) ARR ARR ARR Colgan

**Applied Composition**

☞ 5494 MUSC 168A4 (1) ARR ARR ARR May

**Applied Clarinet**

5495 MUSC 169A (1) ARR ARR ARR Blaser

**Applied Oboe**

5496 MUSC 170A (1) ARR ARR ARR Blaser

**Applied Bassoon**

5497 MUSC 171A (1) ARR ARR ARR Staff

**Applied Harp**

6135 MUSC 172B (1) CANCELED

These courses teach performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Instructor permission and/or audition required; corequisite: ensemble and/or music theory. Lab fee \$300.

**Community Band I - VI**

5498	MUSC	175A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
5499	MUSC	176A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
5500	MUSC	177A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
5501	MUSC	178A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
5502	MUSC	179A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
5503	MUSC	180A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser

Performance ensemble consisting of students and community members. Repertoire will vary and be selected by the band director(s). The ensemble consists of band instrumentation and meets weekly for three hours. Lab fee \$10.

**Community Orchestra I - VI**

5504	MUSC	185A	(2)	7-9pm	M	WAH 150	Friedlander
				ARR	M	WAH 150	Friedlander
5505	MUSC	186A	(2)	7-9pm	M	WAH 150	Friedlander
				ARR	M	WAH 150	Friedlander
5506	MUSC	187A	(2)	7-9pm	M	WAH 150	Friedlander
				ARR	M	WAH 150	Friedlander
5507	MUSC	188A	(2)	7-9pm	M	WAH 150	Friedlander
				ARR	M	WAH 150	Friedlander
5508	MUSC	189A	(2)	7-9pm	M	WAH 150	Friedlander
				ARR	M	WAH 150	Friedlander
5509	MUSC	190A	(2)	7-9pm	M	WAH 150	Friedlander
				ARR	M	WAH 150	Friedlander

Performing ensemble made up of students and community members. Repertoire will vary and will be selected by the orchestra director. The ensemble consists of orchestral instrumentation and meets weekly for three hours. Lab fee \$10.

**Guitar Ensemble I**

6147 MUSC 191A (2) 12-1:30pm TTh WAH 107 Tillinghast

Performing ensemble made up of students and community members. Intended for intermediate and advanced acoustic and electric guitarists; basic guitar playing skills and music reading required. One evening performance required.

**Music Theory V (H)**

☞ 5514 MUSC&242A4 (5) 2-2:50pm Daily WAH 125 May  
 ☞ 6145 MUSC&242BP1 (5) Online May

A study of musical concepts, such as mode mixture, Neapolitan and Augmented Sixth chords, chromatic modulation, popular music and song forms, variation, Sonata and Rondo form. Prerequisite: MUSC& 241.

**NURSING****Common Alterations I**

☞ 5515 NURS 102A4 (12) ARR ARR WSC 202 Gustafson  
 ARR ARR WSC 202Schuchmann  
 ☞ 5516 NURS 102B4 (12) ARR ARR WSC 202 Ormrod

Progressive competencies reflecting program themes are applied to nutrition; cardiac, respiratory, and endocrine systems; and medication and fluid administration. On-campus theory, skills labs and off-campus clinical experiences are provided. Prerequisite: NURS 101 or equivalent. Lab fee \$38.10.

**Complex Alterations**

☞ 5517 NURS 202A4 (12) ARR ARR WSC 202Schuchmann  
 ARR ARR WSC 202 Sullivan  
 ☞ 5518 NURS 202B4 (12) ARR ARR WSC 202 Capen

Progressive competencies reflecting program themes are applied to the care of clients with complex alterations in health. Women's Health and Pediatric and Adult acute care clinical opportunities are provided at regional facilities. Prerequisite: NURS 201 and 220 or equivalent. Lab fee \$42.95.

**NURSING ASSISTANT****Nursing Assistant Certification**

5344 HLSV 131A (9) 8am-12pm MTWTh TEC 115 Speer  
 5:45am-12pm MTWTh SCC Speer  
 5345 HLSV 131B (9) 8am-12pm MTWTh TEC 115 Speer  
 5:45am-12pm MTWTh SCC Speer  
 ☐ 6126 HLSV 131R (9) 8am-12pm MTW MOR 108 Tisai

Awareness of the role of the nursing assistant in nursing care and skill development. Topics: maintain a safe environment, provide restorative care, communication, and practice basic concepts of care. Background check is required for clinical. Lab fee \$192.58. **Section R meets 1/8 - 3/16.**

**Nurse Delegation**

5347 HLSV 132A (2) 1-4:50pm Daily TEC 115 Speer

Class is for Washington State caregivers who work in or will work in specific community-based long-term care settings. Course covers: medication administration, diabetes care, roles and laws pertaining to delegation and hands-on skills practice. Prerequisite: NAC Certification or co-enrollment in NAC. Lab fee \$36.52. **Class meets 3/5, 6, 7, 8, 9, and 12.**

**Mental Health**

5348 HLSV 133A (1) 12:30-4:50pm WTh TEC 115 Speer

Learn how a caregiver, in a generalized residential setting, can work effectively with a person who has a major mental disorder. Prerequisite: NAC certification or currently enrolled in NAC course. Lab fee \$30. **Class meets 3/14 and 15.**



**Dementia**

5349 HLSV 134A (1) 12-4:30pm T TEC 115 Speer

Learn how a caregiver, in a generalized residential setting, can work effectively with a person who has memory impairments. Prerequisite: NAC certification or currently enrolled in NAC course. Lab fee \$30. **Class meets 3/13.**

**NUTRITION****Nutrition (S)**

☞ 5519 NUTR&amp; 101A4 (5) 9-9:50am Daily WSC 110 Jewell

An exploration of the six basic nutrients with diet planning principles, human metabolism, weight control and digestion also being studied. Some chemistry or biology background is helpful. Prerequisite: prior knowledge of chemistry or biology would be helpful.

**OCEANOGRAPHY****Intro to Oceanography (S)**

☞ 5520 OCEA&amp; 101AP1 (5) Online Khandro

Meets requirement for lab course. Explore the physical, geological, chemical and biological characteristics of the ocean: waves and tides, ocean and atmosphere circulation, coastal features and beach processes, ocean basins, sediments, ocean chemistry and physics, plate tectonics, and marine life.

**PHILOSOPHY****Intro to Philosophy (H)**

☞ 5549 PHIL&amp; 101AP1 (5) Online Diamant

Investigate the assumptions philosophers have made about reality, knowledge, truth, God, morality, social construction, freedom, and paternalism.

**Introduction to Ethics (H)**

☞ 5548 PHIL 103AP1 (5) Online Diamant

Focus on choices made in concrete circumstances. Study traditional ethical theories and present-day moral dilemmas.

**PHLEBOTOMY****Intro to Phlebotomy Tech**5550 PHLE 131A (5) 11:30am-12:50pmMW WAH 146 Boerner  
11:30am-2:30pmTTh WAH 146 Boerner

Overview of laboratory procedures and regulations for the medical office laboratory. Prerequisites: BIO 170 & 172, MA 139 with a GPA 2.5 GPA or higher. Lab fee \$52.35.

**PHYSICAL EDUCATION****Physical Fitness (HF)**

☐ 5521 P E 110R (1) 9:30-10:30am TTh MOR 101 Jones

Study all five areas of fitness: aerobic endurance, muscle strength, muscle endurance, flexibility, and body composition. Students work at their own fitness levels. Lab fee \$3.10.

**Volleyball**

5522 P E 115A (1) 12-12:50pm TTh MSG 103 Ewings

This course will cover the fundamental skills and techniques of beginning volleyball. Includes basic rules, scoring and strategy. Lab fee \$3.10.

**Lifestyle Management and Exercise (HF)**

☞ 5523 P E 120A3 (2) 9-9:50am MWF MSG 125 Oien

Designed to assist individual in making life style changes associated with health and fitness. Lab fee \$3.10.

**Stretching & Flexibility**

6143 P E 121A (1) 12-12:50pm TF MSG 200 Johnson C

Learn safe stretches to increase flexibility and range of motion. Understand how stretching can help you decrease injury, recover after other workouts and calm your mind and body.

**Basic Weight Training/Conditioning (HF)**

☞ 5524 P E 123A4 (1) 10-10:50am MW MSG 125 Oien

Designed to condition the musculature of the body using machine and free weights. Lab fee \$3.10.

**Free Weights (HF)**

5525 P E 125A (1) 11-11:50am TTh MSG 130 Oien

Designed to develop muscle fitness through lifting free weights, Olympic lifts, plyometrics and power lifting. Students need prior weight training experience. Lab fee \$3.10.

**Basketball Applications**

5526 P E 130A (3) ARR Daily MSG 103 Moir

5527 P E 130B (3) ARR ARR MSG 103 Sells

A course designed to provide experience in advanced strategies, fundamental skills, and team concepts of basketball. Prerequisite: PE 103, 167 or instructor permission. Lab fee \$3.10.

**Boot Camp Basics (HF)**

5528 P E 140A (1) 12-12:50pm TTh MSG 200 Oien

A high-impact exercise class designed to improve muscle strength, endurance, flexibility and aerobic capacity. Lab fee \$3.10.

**Cardio Combo (HF)**

☞ 5529 P E 142A4 (1) 10-10:50am TTh MSG 200 Oien

A combination of cardio experiences to improve cardiovascular endurance, body composition, muscle fitness and flexibility. A variety of movements will be explored, including step aerobics, kickboxing, Drums Alive, Zumba, and circuits and weights. Lab fee \$3.10.

**Yoga (HF)**

☞ 5530 P E 150A4 (1) 9-9:50am TTh MSG 200 Goss

☞ 5531 P E 150N4 (1) 6-6:50pm TTh MSG 200 Goss

An exercise class integrating components of flexibility, muscular strength and endurance, and relaxation. Students will be encouraged to work at their own level of fitness. Lab fee \$3.10.

**Aerobic Fitness/Snowshoeing (HF)**

☐☞ 5532 P E 151R3 (1) 9am-4pm Sa MOR 108 Johnson C

A fitness program emphasizing aerobic activities only. Designed to develop cardiovascular endurance, flexibility and body composition. Students must attend one of the following orientations: 1/4, 5:15-6pm in Morton, or 1/8, 5:15-6pm in Centralia. Previous snowshoeing experience is not required but students must be able to hike/snowshoe a minimum of 2 miles on uneven terrain. Lab fee \$23.10. **Class meets 1/13, 1/27, and 2/24.**

**Pilates/Core (HF)**

☞ 5533 P E 152A4 (1) 11-11:50am MW MSG 200 Oien

☞ 5534 P E 152B4 (1) 4-4:50pm TTh MSG 200 May

An exercise class designed to teach breathing with movement, body mechanics, balance, coordination, spatial awareness, strength and flexibility. Lab fee \$3.10.

**Tai Chi Basics (HF)**

5535 P E 153A (1) 8-8:50am MW MSG 200 Barr

Develop balance, lower-body strength and relaxation in motion with Wu Style Tai Chi. Students will work at their own level of fitness. Lab fee \$3.10.

**Beginning Tae Kwon Do (HF)**

5536 P E 158N (2) 6-8pm MW MSG 200 Grove

Develop balance, coordination, agility, spatial awareness, strength, and flexibility through the Korean art of Tae Kwon Do. Students will work at their own level of fitness. Lab fee \$3.10.

**Intermediate Tae Kwon Do**

5537 P E 159N (2) 6-8pm MW MSG 200 Grove

Further development of the techniques, forms, the sport, and self defense aspects required to advance to blue belt in the Korean martial art of Tae Kwon Do. Lab fee \$3.10.

**Advanced Tae Kwon Do**

5538 P E 160N (2) 6-8pm MW MSG 200 Grove

Further development of the techniques, forms, the sport, and self defense aspects required to advance to blue and orange belt in the Korean martial art of Tae Kwon Do. Lab fee \$3.10.

**Softball Theory**

5539 P E 164A (3) ARR MWF MSG 103 Storey

An analysis of the mental approach to the game of softball. An emphasis will be placed on the theories and strategies of fastpitch. Lab fee \$3.10.

**Lifetime Fitness (HF)**

5540 P E 168A3 (2) 10-10:50am F MSG 106 Sanchez

5541 P E 168B3 (2) 12-12:50pm W MSG 106 Sanchez

Cardiovascular endurance, muscle fitness, weight management and flexibility will be studied. One lecture hour and two hours of activity per week. Lab fee \$3.10.

**Theory of Baseball**

5542 P E 172A (3) ARR MWF MSG 115 LeDuc

A practical course with emphasis on the coaching of offensive and defensive strategies, theory, psychology and basic rules. First class meets in Gym. Lab fee \$3.10.

**Advanced Volleyball**

5543 P E 215A (1) 12-12:50pm TTh MSG 103 Ewings

Advanced techniques and skills included in competitive volleyball. Advanced offensive and defensive tactics and strategy will be covered. Prerequisite: PE 115 or instructor permission. Lab fee \$3.10.

**Physical Fitness Concepts (HF)**

5544 P E 229A3 (3) 12-12:50pm MWTh MSG 115 Johnson C

A combination of theory and practice in the development of physical fitness. Two lecture hours and two activity hours per week. Lab fee \$3.10.

**Advanced Basketball Applications**

5545 P E 230A (3) ARR Daily MSG 103 Moir

5546 P E 230B (3) ARR ARR MSG 103 Sells

A course designed to provide experiences in advanced strategies, advanced fundamental skills, and advanced team concepts of basketball. Prerequisite: PE 130 or instructor permission. Lab fee \$3.10.

**Advanced Softball Theory**

5547 P E 264A (3) ARR MWF MSG 103 Storey

An advanced analysis of the mental approach to the game of softball. An emphasis will be placed on the theories and strategies of fastpitch. Prerequisite: PE 164. Lab fee \$3.10.

## PHYSICS

**Phys: Non-Sci Majrs w/Lab (S)(formerly PHYS& 100**

5552 PHYS&amp; 110A4 (5) 12-12:50pm MTWTh WSC 108Threapleton

1-2:50pm Th WSC 106Threapleton

5553 PHYS&amp; 110B4 (5) 12-12:50pm MTWTh WSC 108Threapleton

3-4:50pm Th WSC 106Threapleton

A survey of physics with applications in everyday life for non-science majors. Basic concepts in Newtonian mechanics, thermodynamics, electricity, magnetism, optics, and modern physics. Requires knowledge of basic algebra. Includes a 2 hour lab. Lab fee \$15.62.

**Engineering Physics II (S)**

5554 PHYS&amp; 222A4 (5) 8-8:50am MTWTh WSC 108Threapleton

1-2:50pm M WSC 106Threapleton

Wave motion, thermodynamics, and electrostatics. Includes sound, heat transfer, law of thermodynamics, and electric fields. Prerequisite: PHYS& 221 and MATH& 152; corequisite: MATH& 153. Lab fee \$17.94.

**Research in Physics**

5551 PHYS 270A (12) ARR ARR ARR Threapleton

Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

## POLITICAL SCIENCE

**American Government (SS)**

5555 POLS&amp; 202AP1 (5) Online McCullouch

Students will examine the American political structure and its ideological roots. We will explore how the structure is organized and how it operates.

**Comparative Government (SS) (D)**

5556 POLS&amp; 204A (5) 9-9:50am Daily WSC 204 Peterson J

Examine political theory and application within a comparative framework: ideology, nature of participation, as well as a variety of governmental structures, and functions. Contemporary situations will provide the cases for example and analysis.

## PSYCHOLOGY

**General Psychology (SS)**

5564 PSYC&amp; 100A4 (5) 11-11:50am Daily WAH 109MacNamara

5565 PSYC&amp; 100B4 (5) 1-3:20pm TTh WSC 107MacNamara

6140 PSYC&amp; 100CP1 (5) Online MacNamara

5566 PSYC&amp; 100DP1 (5) Online MacNamara

An introduction to the scientific study of behavior: history, research methods, biology of behavior, lifespan development, sensation and perception, learning, memory, intelligence, motivation, emotion, personality, psychological disorders and therapies, and social psychology.

**Lifespan Psychology (SS)**

5568 PSYC&amp; 200A4 (5) 9-9:50am Daily WSC 107MacNamara

5569 PSYC&amp; 200BP1 (5) Online Osawa

Human development from conception to death. Basic concepts and principles of biological, cognitive, and psychosocial development are integrated for each age period. Typical developmental tasks as well as problems are emphasized. Prerequisite: PSYC& 100.

**Abnormal Psychology**

☎ 5570 PSYC& 220AT4 (5) 1-3:20pm MW WSC 211 Starroff  
 ☐☎ 5571 PSYC& 220RT4 (5) 1-3:20pm MW MOR 110 Starroff

An introduction to the study of abnormal behavior, including behavioral problems, personality disorders and maladjustment, and the study of the causes, diagnoses, and treatment. Prerequisite: PSYC& 100 or instructor permission.

**READING****Independent Study**

5572 READ 096N (1-5) 5-7:20pm MW WSC 101 Shriver G

Individualized instruction for the student whose needs are not currently being met by the available course offerings. Specialized curriculum and instruction are developed to meet each students needs. Permission of instructor only.

**Specific Reading Skill Development**

5573 READ 097A (1-3) 11-11:50am Daily MSG 115 Shriver G

This course is designed to provide students with opportunities to improve their reading specifically identified areas of need. Comprehension building, word attack skills, and content area reading are a few of the specific areas that can be targeted by this class.

**Improvement of Reading**

5574 READ 099A (1-5) 11-11:50am Daily MSG 115 Shriver G  
 5575 READ 099N (1-5) 5-7:20pm MW WSC 101 Shriver G  
 ☐ 5576 READ 099R (1-5) ARR MW MOR 108 Nellis

Students strengthen thinking, reading comprehension, and vocabulary skills in learning to read and study textbooks, writing summaries, note taking, and test taking. Completion of course satisfies the basic skill deficiency in reading. Prerequisite: COMPASS placement (reading) 49.

**Technical Reading**

5577 READ 100A (3) 11-11:50am Daily MSG 115 Shriver G

Designed to teach discipline-specific reading strategies useful to students in both vocational and academic areas. It will also teach awareness of academic though processes and present skills to enhance that thinking process.

**Speed Reading**

5578 READ 110A (3) ARR ARR WAH 115 Shriver G

Self-paced course for students wishing to increase reading rate and comprehension using proper eye movements, improved vocabulary, and correct reading methods based on reading material. Prerequisite: college level reading and vocabulary skills.

**SCIENCE****Survey of Earth Sciences (S)**

☐☎ 6128 SCIE 103R4 (5) 8-9:50am MWF MOR 101 Fagin  
 ☐☎ 6151 SCIE 103S3 (5) ARR ARR MOR Fagin  
 12-1:50pm F WSC 105 Fagin

Explores topics in earth sciences: geology, oceanography, meteorology, astronomy. Earthquakes, volcanoes, glaciers, streams and floods, landslides, tides, coastal features, weather and climate, planets and stars. Integrates information about the relationship between humans and the physical environment. Designed for students with little or no science background. **Section S3 is a hybrid class with lectures presented online and labs once a week at the Main Campus.**

**Weather and Climate (S)**

☎ 5580 SCIE 115AP1 (5) Online Brown D

Meets requirement for lab course. Study of Earth's atmosphere, atmospheric processes, weather, climate, and climate history. Experience will be provided in weather map interpretation, use of instruments, forecasting, interpretation of past climate conditions, and hands-on dendrochronology. Prerequisite: MATH 098 or equivalent.

**SOCIOLOGY****Intro to Sociology (SS)**

☎ 5591 SOC& 101A4 (5) 8-8:50am Daily WSC 107 Coffman  
 ☎ 5592 SOC& 101B4 (5) 9-9:50am Daily WSC 108 Coffman  
 ☎ 5593 SOC& 101C4 (5) 11-11:50am Daily WSC 211 Coffman  
 ☎ 5594 SOC& 101DP1 (5) Online Medlin

Study of society and human interaction. Topics include social ranking, change, deviance, social control, the creation of thought and personality, groups, institutions, political and economic power, social movements, and how to gather valid sociological information.

**Social Problems (SS)**

5596 SOC& 201A (5) 10-10:50am Daily WSC 208 Avalos

Investigate problems within society and how we view certain social conditions as social problems. Topics include technology, environment, population, economy, class, race/ethnic relations, sexism, ageism, family problems, education, cities, deviance, crime, mental health, physical health.

**SPANISH****Spanish I (H)**

☎ 5598 SPAN& 121A4 (5) 1-1:50pm Daily WSC 210 Martinez

First class in 100 level sequence. Learn the fundamental skills of listening comprehension, speaking, reading and writing. Develop an awareness of Spanish speaking countries and their cultures.

**Spanish II (H)**

☎ 5599 SPAN& 122A4 (5) 8-8:50am Daily WSC 210 Gorecki  
 ☎ 5600 SPAN& 122B4 (5) 10-10:50am Daily WSC 210 Gorecki  
 ☎ 5601 SPAN& 122CP1 (5) Online Martinez

Second class in sequence. Learn the fundamental skills of listening comprehension, speaking, reading and writing. Develop an awareness of Spanish speaking countries and their cultures. Prerequisite: SPAN& 121 or instructor permission.

**Heritage Spanish I (H)**

☎ 5597 SPAN 201A4 (5) 9-9:50am Daily WSC 210 Gorecki

Introduction to academic Spanish for heritage/native speakers. Course is first sequence designed to prepare speakers for more advanced study. Areas of focus include grammar terminology, spelling, accentuation, reading, writing and discussion of cultural topics. Prerequisite: native or heritage speaker of Spanish, instructor permission required.

**Spanish V (H)**

☎ 5602 SPAN& 222A4 (5) 11-11:50am Daily WSC 109 Gorecki

Discuss Hispanic cultures in Spanish, develop oral and written skills, review and expand essential points of grammar, and build vocabulary. Prerequisite: SPAN& 221 or permission from the instructor.

**STUDENT DEVELOPMENT****Study Skills**

5581 SDEV 099A (1-5) 5-7:20pm MW WSC 101 Shriver G

Students learn essential skills needed for effective study. Course includes learning style assessment, time management, study reading, memory techniques, test-taking strategies, and research techniques.

**Career Planning**

☎ 5582 SDEV 105AP1 (2) Online Mercer  
 Students identify their interests, skills and abilities and evaluate their personality styles, values and work environments as they relate to careers. Activities include interest inventory test, computer programs, job market research and informational interviewing. The format is lecture, discussion, group activities and individual projects. Lab fee \$21.94.

**Student Success**

☎ 5584 SDEV 150A4 (3) 12-12:50pm MWF LIB 003A Burr  
 College success strategies; goal-setting, time management, memory improvement, textbook reading strategies, note-taking, test-taking, project management. Taught by lecture, group and individual work. Includes Saturday field trip for challenge course activities. Lab fee \$36.91.

**WELDING****GMAW Welding**

5607 WELD 164A (12) 11am-2:50pm Daily TEC 103 Peters  
 Gas metal-arc welding (GMAW) and flux-cored arc welding (FCAW) safety, setup, operation and troubleshooting. Lab practice includes butt, lap, tee and corner joints in all positions. Also includes GMAW with aluminum and AWS weld testing. Lab fee \$143.09.

**Oxyacetylene and Gas Tungsten Arc Welding**

5608 WELD 180N (5) 6-8:50pm TTh TEC 103 Bhagwandin  
 Safety, setup, brazing, cutting, and welding in all positions using oxy-acetylene and gas tungsten arc welding equipment. Lab fee \$73.78.

**Shielded Metal Arc Welding**

5609 WELD 181N (5) 6-8:50pm TTh TEC 103 Bhagwandin  
 Safety, setup, and welding in all positions using AC/DC arc welding equipment. Lab fee \$73.78.

**Gas Metal Arc Welding**

5610 WELD 182N (5) 6-8:50pm TTh TEC 103 Bhagwandin  
 Safety, setup, and welding in all positions using gas metal arc welding equipment. Lab fee \$73.78.

**Adv. Gas Shielded Arc Welding**

5611 WELD 267A (12) 8-11:50am Daily TEC 105 Driscoll  
 Advanced Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW) techniques for all position plate and pipe welding. WABO certification testing is included. Prerequisite: WELD 164 or instructor permission.

# BACHELOR OF APPLIED SCIENCE CLASSES

To learn more about the Bachelor of Applied Science Programs offered at Centralia College, please go to <http://bachelors.centralia.edu/>

## Intermediate Accounting II

☎ 6124 ACCT 302N3 (5) 7-8:50pm T WSC 111 Staff

The second installment of a two-part course designed to teach a professional level understanding of financial accounting and reporting as it applies to business entities both publically traded and privately held. Prerequisite: ACCT 301 or by permission.

## Acctg Prin for Mgrs

☎ 5077 ACCT 310N3 (5) 7-8:50pm T WSC 213 Kovis

Foundation course in accounting principles from a management perspective. Analyze the interrelationships of financial statements and cost behavior to measure and control the performance of a business entity, and make decisions based on this information.

## Federal Taxation Issues

☎ 5078 ACCT 403N3 (5) **CANCELED**

The application of tax law and internal revenue code used to complete tax returns associated with not-for-profit entities, estates, and trusts. Prerequisite: ACCT& 202 or by permission.

## Prof & Org Communication

☎ 5232 CMST 330N3 (5) **CANCELED**

Foundation course designed to develop effective written and verbal communication skills in organizational settings. Students will gain an appreciation for the crucial role communication plays in organizations and how to improve their employability.

## Hydraulics II

☎ 5250 DET 330A3 (5) 1-3:50pm MTWTh TEC 159 Conrad

The study and application of complex hydraulic systems with an emphasis on troubleshooting and system design. Prerequisite: enrollment in BAS-DT or instructor permission. Lab fee \$75. **Class meets 1/3 - 2/7.**

## Combustion Engine Fuels

☎ 5251 DET 340A3 (5) 1-3:50pm MTWTh TEC 154 Lucas

Identify and comprehend a variety of alternative power sources used in internal combustion engines. Power sources to be included are: diesel fuel, bio-diesel, gasoline, ethanol, propane, and CNG fueled engines. Prerequisite: enrollment in BAS-DT or instructor permission. Lab fee \$75. **Class meets 2/8 - 3/16.**

## Material Science of Fluids

☎ 5252 DET 400A3 (5) 1-3:50pm MTWTh TEC 159A Lucas

Oil, fuel, and coolant properties and functions. Field sampling and laboratory testing of fluids will be performed. Results of testing will be interpreted and explained at a customer level. Prerequisite: enrollment in BAS-DT or instructor permission. Lab fee \$100. **Class meets 1/3 - 2/7.**

## Regulatory Issues

☎ 5254 DET 410A3 (5) 11-11:50am MTWTh TEC 159 Lucas

Studies the requirements set forth by governing agencies, such as: DOE/EPA, MSHA, OSHA, and Labor and Industries relating to diesel fueled automotive and industrial equipment. Prerequisite: enrollment in BAS-DT or instructor permission. **Class meets 1/3 - 3/16.**

## Enviornmental Issues

☎ 6122 ENVS 440N3 (5) 5-6:50pm M WSC 206 Hueckel

An exploration of environmental issues and effect on business, communities and consumers. Case studies are used to examine basic concepts of ecology and environmental science as they relate to permitting and other business decisions. Prerequisite: lower division natural science course.

## Ethics

☎ 5367 HUM 315N3 (5) 6-7:50pm Th WSC 109 Mitchler

Foundation course in ethics as applied to businesses and organizations related to management issues. Students will explore theoretical concepts in business ethics and apply them to real-world situations based on challenges managers face. Prerequisite: MGMT 300 or DET 300.

## Software Engineering I

☎ 5382 IT 330A3 (5) 4-5:50pm TTh WAH 211 Staff

An introduction course in software engineering. Software modeling using Unified markup language (UML) diagramming, systems (business) analysis, requirements gathering, analysis, and design are the focus of this course. Lab fee \$50.

## Advanced Databases

☎ 5383 IT 350N4 (5) 6-7:50pm TTh WAH 211 Staff

A second course in Application/Software Engineering. Introduces test-driven development. Coding exercises include building unit tests and application code based on the requirements documentation of a project. Prerequisite: BAS-IT:AD admission or approval. Lab fee \$50.

## Business Intelligence App

☎ 6120 IT 420A3 (5) 3-4:50pm **MW WAH 211** Staff

Students gain practical experience and skills to develop business intelligence solutions. Students will create reports, dashboards, set-up and perform statistical analysis, data mining, and classification/clustering of data using both programming and tools. Lab fee \$50.

## Internship 2

☎ 6121 IT 450N3 (5) 5-6:50pm **MW WAH 211** Staff

Students enrolled in this internship will have opportunities to serve on a software development team in some capacity, gaining practical experience in the software development life cycle, stakeholder communication, collaboration, and software development. Lab fee \$50.

## Managerial Statistics

☎ 5435 MATH 350N3 (5) 6-7:50pm Th WSC 213 Kiekel

Statistical analysis techniques will be examined and applied in case studies involving real-world management issues. Students will examine difficulties, subjective decisions, and pitfalls when analyzing data and making inferences from numbers. Prerequisite: QSR math distribution.

## Foundations of Mgmt

☎ 5459 MGMT 300N3 (5) **CANCELED**

Foundation course that explores organizational theory and introduces the principles and concepts of effective management including planning, organizing, leading and controlling. Effective decision-making, change management and motivating employees will be discussed. Prerequisite: ENGL& 101 or instructor permission.

**Applied Financial Mgmt**

☞ 6123 MGMT 340N3 (5) 7-8:50pm M WSC 206 Broderson

Surveys the application of tasks normally associated with the corporate financial manager. Topics of study include planning, controls, capital markets, capital budgeting, capital structure, and working capital management. Prerequisite: ACCT 310 with minimum grade of 2.0.

**Practicum in Management**

☞ 5460 MGMT 370N3 (5) 5-6:50pm T WSC 109 Dreffin

This course will explore and build student comprehension of the application of management functions covered in BAS-AM courses via direct interaction between students and local managers and entrepreneurs from private, public and non-profit sectors.

**Marketing for Managers**

☞ 5462 MGMT 380N3 (5) **CANCELED**

A core course designed to develop the marketing knowledge and skills necessary for the successful manager of a profit or non-profit organization. Students will develop and present a comprehensive marketing plan.

**Project Mgmt Application**

☞ 5463 MGMT 410N3 (5) 7-8:50pm T WSC 206 Ward

The theory and practice of project management as it relates to managers. Planning, organizing, securing and managing the human, financial, and physical inputs required to meet project objectives will be covered.

**Strategic Management**

☞ 5464 MGMT 490N3 (5) 5-6:50pm T WSC 206 McClain

A capstone course which focuses on the key aspects that must be addressed for sustained organizational success, effective problem solving, and the capture of opportunities from the perspective of the general manager or the entrepreneur. Prerequisite: MGMT 460 or instructor permission.

## MORTON - SPECIAL INTEREST

### **Fitness for Health**

□ 5096 ASI 012R (1) 9am-4pm Sa MOR 108 Johnson C  
Designed to help improve the five areas of health-related physical fitness-cardiovascular endurance, muscular strength, muscular endurance, body composition and flexibility. Participants will be encouraged to work at their own level of fitness. Students must attend one of the following orientations: 1/4, 5:15-6pm in Morton, or 1/8, 5:15-6pm in Centralia. Previous snowshoeing experience is not required but students must be able to hike/snowshoe a minimum of 2 miles on uneven terrain. Class fee \$45. **Class meets 1/13, 27, and 2/24.**

### **Middle Eastern Dance**

□ 5097 ASI 014R (1) 6:30-7:30pm T MOR Nixon  
Learn and practice dance postures, flexibility, and dance movements traditional to Middle Eastern cultures. Discover rich and varied music and movement inherent in Middle Eastern dance. Dress for exercise. Class fee \$25.

### **Better Bones and Balance**

□ 5098 ASI 015R (1) 9:30-10:30am TTh MOR 101 Jones  
Reap the benefits OSU Bone Research studies have shown: this exercise program can significantly slow loss of bone density in adults of all ages as well as improve balance, flexibility, coordination, muscle tone and overall body fitness. Class fee \$25.

### **Intro to Social Dance**

□ 6157 ASI 016S (1) 6-7:30pm M TAC O'Neill  
A fitness class that improves balance and coordination through social dancing. Learn the basics of the Waltz, Salsa, West Coast Swing, and Country Swing. No previous experience required. Class fee \$35.

### **Roadside Geology of Eastern Lewis County**

☞ 6158 ASI 045S (1) 10:30am-12pm M MOR 101 Fagin  
An introduction to the geologic story in the local landscape. Develop an understanding of the geologic history of selected landforms and the processes that create them, as well as an understanding of how the local geology ties in with the regional geology. Class fee \$45.

### **Introductory Spanish**

□ 5100 ASI 060R (2) 3:30-5pm Th MOS Martinez  
Beginning Spanish language skills: pronunciation, grammar, conversation, culture, and history. Class fee \$45.

### **Exploring Literature**

□ 5101 ASI 065R (2) 12-2:30pm TTh MOR 108 Barnes  
An exploration (through reading and writing) of various literary genres to include poetry, creative nonfiction, short fiction and drama in an interactive workshop environment. Class fee \$45.

## MORTON - BUSINESS MGMT

### **Microsoft Excel-Brief**

□ 5586 SMGT 120R (2) 1:30-3pm Th MOR 112 Cantin  
Courseware incorporates an accelerated, step-by-step, project-based approach, students develop an introductory level competency in Excel learning to create, edit, format, calculate and add special features to spreadsheets. Prerequisite: some computer experience. Class fee \$45.13.

### **Microsoft Word**

□ 5589 SMGT 197R (3) 11:30am-1:30pmTh MOR 112 Cantin  
Courseware incorporates a step-by-step, project-based approach, to develop competency in Microsoft Word learning to create, edit, format, and add graphics to documents. In addition to effectively plan, research, write and publish documents. Prerequisite: general understanding of personal computers and Windows. Class fee \$63.13.

### **Microsoft PowerPoint**

□ 5590 SMGT 298R (3) 1-2:30pm T MOR 112 Cantin  
Courseware incorporates a step-by-step, project-based approach, to develop competency in Microsoft PowerPoint learning to create, edit, and format professional presentations using tables, graphics, sound, animation, SmartArt and other common features. Class fee \$63.13.