

# *Winter 2019*

## *Advising Schedule*



Winter quarter classes begin January 2, 2019.

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 on-line 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 \$4 fee. Additionally, a \$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 (NS), 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

☞ 5058 ACCT 120A4 (3) 8-8:50am MWF WAH 205 Lazo

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.

### Prin of Accounting I

☐☞ 5068 ACCT& 201S3 (5) 4-6:20pm T MOR 101 Germann  
☐☞ 5069 ACCT& 201RP1 (5) Online 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

☞ 5070 ACCT& 202A4 (5) 11-11:50am Daily WAH 113 Thompson

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

☞ 5072 ACCT& 203A4 (5) 9-9:50am Daily WAH 115 Thompson

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

☞ 5060 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

☞ 5061 ACCT 240A3 (5) 12-1:20pm MWF WAH 113 Thompson  
+1 hour/week TBA

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

☐☞ 5063 ACCT 260S3 (5) 4-6:20pm Th MOR 101 Germann  
☐☞ 5064 ACCT 260RP1 (5) Online 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.

## AMERICAN SIGN LANGUAGE

### American Sign Language II

☞ 5086 ASL& 122A4 (5) 12-2:20pm TTh WSC 109 Depuye-Phillips  
☞ 5087 ASL& 122B4 (5) 2:30-4:50pm TTh 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 (D)(SS)

☞ 5073 ANTH& 206AT4 (5) 9-9:50am Daily WSC 211 Avalos  
☞ 5074 ANTH& 206B4 (5) 12-12:50pm Daily WSC 111 Avalos  
☐☞ 6132 ANTH& 206RT4 (5) 9-9:50am Daily MOR 110 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 (D)(SS)

☞ 5075 ANTH& 210AP1 (5) Online Staff

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 (D)(H)

☞ 5082 ART& 100A4 (5) 10-10:50am Daily WAH 109/116 Frey

Examine the nature of visual art, its role in society, and methods of creative expression. Provides an overview of art history, surveys contemporary artists, and introduces studio methods in a variety of media.

### Drawing I (H)

☞ 5076 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**

☎ 5077 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**

☎ 5078 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**

☎ 6131 ART 106A4 (5) 1-3:50pm TTh WAH 116/124Solomon  
An introduction into the studio methods of printmaking as well as its historical significance and contemporary applications. Create multiples using various matrixes including screen prints, etchings and relief prints. Lab fee \$50.

**Sculpture**

☎ 5079 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. Lab fee \$45.

**Computer Graphics (H)**

☎ 5080 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 \$54.16.

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

☎ 5081 ART 201A4 (5) 11-11:50am Daily WAH 115 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 (NS)**

☎ 5088 ASTR 127N3 (5) 5-6:50pm Th WSC 208 Garcia  
+3 hours/week 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 (NS)**

☎ 5089 ASTR 128N3 (2) 7-8:50pm Th WSC 208 Garcia  
+1 hour/week 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****General Biology w/Lab (NS)**

☎ 6100 BIOL& 160A4 (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. Outlines the characteristics of life, its history, and biodiversity. Lab fee \$18.46.

**Human Biology (NS)**

☎ 5095 BIOL& 170A4 (5) 10-10:50am Daily WAH 103 Hutcheon  
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**

☎ 5090 BIOL 172A4 (1) 1-2:50pm Th WSC 314 Hutcheon  
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 (NS)**

☎ 5096 BIOL& 222A4 (5) 11-11:50am MTWTh WSC 108 Jewell  
2-3:50pm Th WSC 303 Jewell  
☎ 5097 BIOL& 222B4 (5) 11-11:50am MTWTh WSC 108 Jewell  
4-5:50pm Th WSC 303 Jewell

Metabolism and energetics, structure and function of biomolecules and cells, Mendelian and molecular genetics, gene regulation and biotechnology. Second course in a three-quarter series (BIOL& 221, 222, and 223). Prerequisites: HS biology and chemistry or BIOL& 160; CHEM& 121 or CHEM& 161 recommended. Lab fee \$20.96.

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

☎ 5098 BIOL& 241A3 (5) 6-6:50pm W WSC 215 Hutcheon  
+3 hours/week TBA  
4-5:50pm M WSC 314 Hutcheon  
+3 hours/week TBA  
☎ 5099 BIOL& 241N3 (5) 6-6:50pm W WSC 215 Hutcheon  
+3 hours/week TBA  
6-7:50pm M WSC 314 Hutcheon  
+3 hours/week TBA

Investigate interactions between structures and functions essential for human health. Levels include macromolecules, membranes and the cell, tissues, integument, skeleton and articulations, skeletal muscles, nerves, and central nervous system. First quarter of a two-quarter sequence. Prerequisite: HS biology and chemistry or BIOL& 160 or BIOL& 170 and CHEM& 121. Lab fee \$18.46.

**Human A & P 2 (NS)**

☎ 5100 BIOL& 242A4 (5) 12-12:50pm MTWTh WSC 121 Hutcheon  
2-3:50pm T WSC 314 Hutcheon  
☎ 5101 BIOL& 242B4 (5) 12-12:50pm MTWTh WSC 121 Hutcheon  
2-3:50pm W WSC 314 Hutcheon  
☎ 5102 BIOL& 242C4 (5) 12-12:50pm MTWTh WSC 121 Hutcheon  
4-5:50pm T WSC 314 Hutcheon

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**

5092 BIOL 270A (1-12) ARR ARR ARR Carlson L  
 5093 BIOL 270B (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 (NS)**

☞ 5103 BOTA 110A3 (5) 11-11:50am MTWTh WSC 111 Carlson L  
 2-3:50pm W WSC 307 Carlson L

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**

☞ 5131 BUS& 101AP1 (5) Online McClain

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**

☞ 6137 BUS 121RP1 (5) Online Rath

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**

☞ 5132 BUS& 201A3 (5) 10-10:50am MW WAH 214 McDonald

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**

☞ 5127 BUS 203AP1 (5) Online King

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.

**Marketing**

☞ 6103 BUS 220A3 (5) 9-9:50am MWF WAH 214 McClain  
 +2 hours/week TBA

A broad overview of the market structure and marketing philosophies currently being used in business. Includes a description, analysis, and evaluation of the marketing system. Each student will conduct a marketing research project.

**Money and Banking**

☞ 5128 BUS 225A3 (5) 11-11:50am MWF WSC 107 Rath  
 +2 hours/week TBA

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.

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

☞ 5104 BTEC 101A3 (3) 9-9:50am Daily WAH 207 Copeland

For students without keyboarding skills. Develop speed to 25wpm by touch. Develop speed, accuracy, and basic word processing techniques for letters, reports, and tables.

**Keyboard Skillbuilding I**

☞ 5107 BTEC 102A3 (3) 9-9:50am Daily WAH 207 Copeland

Individualized program for improving keyboarding techniques and increasing speed and accuracy. Upon course completion, students should be able to type at a minimum of 35wpm with one error per minute. Prerequisite: BTEC 101 and typing speed of 25wpm or instructor permission.

**Business English**

☞ 5110 BTEC 110A4 (5) 10-10:50am Daily WAH 205 Lazo

This course is intended to provide a basis for producing office documents. Topics include editing skills including grammar, punctuation, proofreading, and spelling. Business English is a basis for medical documentation, business communications, and office procedures. Prerequisite: ENGL 098 with 2.0 or higher; placement of ENGL 099 or higher.

**Cooperative Work Experience**

☞ 5111 BTEC 190A4 (1-12) ARR ARR ARR Copeland

See description under Cooperative Work Experience heading.

**Work Experience Seminar**

☞ 5112 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 concurrent with Cooperative Work Experience.

**Keyboard Skillbuilding II**

☞ 6163 BTEC 203A3 (3) 9-9:50am Daily WAH 207 Copeland

Individualized advanced skillbuilding program for students who have taken BTEC 102. Upon completion of this course, students should be able to type at a minimum of 50wpm with one error per minute. Prerequisite: BTEC 102.

**Outlook**

☞ 5113 BTEC 205A3 (1) 11-11:50am TTh WAH 205 Lazo

This course covers assorted tasks in Microsoft Outlook. Students will use their college email address to create and send email messages, schedule meetings, maintain calendars, and manage tasks. Prerequisite: IT 117, typing speed of 35wpm, instructor permission.

**Word 1**

☞ 5114 BTEC 210A3 (5) 12-12:50pm Daily WAH 205 Lazo  
 +2 hour/week TBA

☞ 5115 BTEC 210RP1 (5) Online Cantin

Course covers Microsoft Word in depth: document preparation, formatting, graphics, WordArt, SmartArt, tabs, columns, sorting, mail merge, styles, Quick Parts, headers/footers, references. Students will format documents to business standards. Prerequisite: IT 117, typing speed of 35 wpm, instructor permission.

**Access I**

☞ 6164 BTEC 212A3 (5) 1-1:50pm MTWTh WAH 207 Copeland  
 +1 hour/week TBA

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, BTEC 210, BTEC 214 or instructor permission. **Lab fee \$10.69.**

**Excel 1**

☎ 5116 BTEC 214A3 (5) 9-9:50am MTWTh WAH 205 Lazo  
 ☎ 6231 BTEC 214BP1 (5) Online Lazo  
 ☐☎ 5117 BTEC 214RP1 (5) Online Cantin

This course is a hands-on approach for beginning through intermediate level applications of Excel spreadsheet using a variety of business applications. Students will learn formulas, charts, formatting, and management of Excel files. Prerequisite: IT 117, typing speed of 35wpm, instructor permission.

**Desktop Publishing**

☐☎ 5118 BTEC 218RP1 (4) Online Cantin

This course covers terminology, concepts, and tasks related to desktop publishing. Students will plan, create, and design publications for business and personal use. Prerequisite: IT 117, BTEC 210, typing speed of 35wpm, instructor permission.

**Word 2**

☐☎ 5119 BTEC 219RP1 (5) Online Cantin

This course covers advanced Microsoft Word features such as: linked textboxes, outlines, multi-level lists, sections, translator, AutoCorrect, Building Blocks, Quick Parts, macros, bibliographies, citations, footnotes, endnotes, formal reports, table of contents, indexes, and fill-in forms. Prerequisite: BTEC 210.

**Business Communications**

☎ 5120 BTEC 221A4 (5) 10-10:50am Daily WAH 207 Copeland

Applying principles of effective written and oral business communications. Upon completion, students should be able to produce effective digital media pieces, positive, negative, and persuasive messages, informal reports, and a resume and cover letter. Prerequisite: BTEC 110 or ENGL& 101 or WRT 105.

**PowerPoint**

☎ 5121 BTEC 222A4 (1) 11-11:50am W WAH 205 Lazo  
 +1 hour/week TBA

☐☎ 5122 BTEC 222RP1 (1) Online Cantin

Class covers PowerPoint in depth: presentations, formatting, graphics, charts, design, and appropriate visual elements for professional presentations. Prerequisite: IT 117, typing speed of 35wpm, instructor permission. Section A includes required additional lab time on Thursdays, 11-11:50am.

**Filing**

☎ 5123 BTEC 233A3 (3) 12-12:50pm MWF WAH 207 Copeland  
 +1 hour/week TBA

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**

☎ 5124 BTEC 255A3 (5) 1-1:50pm MTWTh WAH 205 Scott  
 +1 hour/week TBA

Introduction to major insurance program information and federal healthcare legislation. Exploration of health insurance guidelines and the knowledge and skills required for billing. Prerequisite: BTEC 260.

**Medical Terminology**

☎ 5125 BTEC 260A4 (4) 10-10:50am MTWTh TAC 340 Scott K

Development of a medical vocabulary with emphasis on definition and spelling. Upon completion of this course students should be able to recognize spoken medical terms, analyze word parts for meaning, and understand basic medical terminology.

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

☎ 5135 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 working with diverse populations within all levels of care. Prerequisite: CDP 100, with 2.0 or higher.

**Assess & Treatment Plans**

☎ 5136 CDP 130A3 (5) 1-2:50pm TTh WSC 211 Rabe  
 +1 hour/week TBA

Course introduces students to the current standard used in assessing, diagnosing, and treating those with substance use and co-occurring disorders. Prerequisite: CDP 100, with 2.0 or higher.

**Treatment in Groups**

☎ 5137 CDP 210A4 (4) 10-11:50am MW TAC 338 Rabe

An introduction to group dynamics and group process, as applied to chemical dependency counseling. Topics include group formation, ethical considerations made in group counseling, diversity, group developmental stages, documentation, and group counseling approaches/techniques. Prerequisite: CDP 100, with a 2.0 or higher.

**Chem Dependency & Family**

☎ 5138 CDP 220A3 (4) 1-3:50pm F WSC 107 Staff  
 ☎ 6232 CDP 220B4 (4) 1-2:50pm MW WSC 110 Rabe

An examination of substance use, abuse, and dependency within the family system. Course emphasis is on the integration of Family System and Chemical Dependency approaches when working with chemically dependent families. Prerequisite: CDP 100, with a 2.0 or higher.

**CHEMISTRY****Introduction to Chemistry (NS)**

☎ 5184 CHEM& 121A4 (5) 11-11:50am MTWTh WSC 121 Sprafka  
 1-2:50pm T WSC 308 Sprafka  
 ☎ 5185 CHEM& 121B4 (5) 11-11:50am MTWTh WSC 121 Sprafka  
 1-2:50pm W WSC 308 Sprafka  
 ☎ 5186 CHEM&121NT3 (5) 5-6:50pm M WSC 211 Sprafka  
 5-6:50pm W WSC 308 Sprafka  
 +2 hours/week TBA  
 ☐☎ 6134 CHEM&121RT3 (5) 5-6:50pm M MOR 110 Sprafka  
 1-2:50pm F WSC 308 Sprafka

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**

☎ 5181 CHEM 159A3 (1) 9-9:50am F WSC 101 Sprafka

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 (NS)**

☎ 5187 CHEM& 161A4 (6) 10-10:50am MTWTh WSC 308 Sprafka  
 1-4:50pm M WSC 308 Sprafka

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 equivalent, or instructor permission. Lab fee \$27.46.

**General Chemistry w/Lab II (NS)**

☯ 5188 CHEM& 162A4 (6)	10-10:50am 1-4:50pm	MTWTh T	WSC 121 WSC 302	Goodwin
☯ 5189 CHEM& 162B4 (6)	10-10:50am 1-4:50pm	MTWTh W	WSC 121 WSC 302	Goodwin

Second of a three-quarter sequence. Includes periodic trends, chemical bonding and structure, valence bond/molecular orbital theory, intermolecular forces, liquids and solids, solutions, and kinetics. 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**

☯ 5190 CHEM& 262A4 (6)	12-12:50pm 1-4:50pm	MTWTh M	WSC 215 WSC 302	Goodwin
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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**

5182 CHEM 270A (1-12)	ARR	ARR	ARR	Sprafka
5183 CHEM 270B (1-12)	ARR	ARR	ARR	Goodwin

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. Lab fee \$13.85.

**CHILD & FAMILY STUDIES****Learning with Infants and Toddlers**

5142 CFS 121A (2)	10-11:50am OR 1-2:50pm	W W	CEN CEN	Hastings Hastings
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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.

**Dynamic Dads**

5150 CFS 131DAD(3)	9-10:50am	Sa	LAX 103	Kauano
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How do you become the dad you want to be? How can you connect with other dads and share with them some of your great skills? This is the class for you. Dads only!

**Love & Logic -Winlock**

5155 CFS 131LLW (2)	4-5:50pm	T	WIN	Kinnaman/Morlin
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Would you like to feel more confident as a parent or teacher? Would you like to have more fun parenting and teaching? Would you like to feel more relaxed at the end of the day? Attend this parenting program designed by The Love and Logic Institute, Inc. Child care is provided. **Class meets 1/15 - 3/8.**

**Level Up Parenting**

5156 CFS 131M (2)	12-1:50pm	T	HFL	Osborne
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Ready to up your good parenting skills? Level Up Parenting is the class for you!

**LeaP - Morton**

☐ 5157 CFS 131MOR(2)	9:30-11:30am	T	MOR	Hanson
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This class is designed to help parents understand and enjoy their child's first three years of life. Children attend classes with their parents and participate in age-appropriate learning activities including: art, music, finger plays, large and small motor activities.

**Parenting in Recovery**

5160 CFS 131REC (2)	9:30-11:30am	W	HFL	Osborne
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Parents will have the opportunity to improve their parenting skills, learn trust-building techniques, explore the impact of substance abuse on the family, and understand the physical, cognitive, social and emotional needs of their children.

**Social Kids**

5163 CFS 131SSK (2)	10-11:50am	Sa	HFL	Staff
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Learn about the special gifts of your child who is on the Autism spectrum, local resources to assist you, and how to advocate for your child. Child care is provided.

**Strengthening Families -Randle**

6122 CFS 131SFR(2)	5:30-8pm	Th	Randle	Scannell
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Join us to learn about having family discussions and structured activities designed to have fun while increasing family harmony. **Class meets 1/31 - 3/14.**

**CHINESE****Chinese I (D)(H)**

☯ 5191 CHIN& 121A4 (5)	12-12:50pm	Daily	WSC 208	Wynder
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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)**

☯ 5192 CHIN& 122A4 (5)	11-11:50am	Daily	WSC 208	Wynder
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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)**

☯ 5193 CHIN& 222A4 (5)	10-10:50am	Daily	WSC 208	Wynder
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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)**

☯ 5204 CMST& 102A4 (5)	11-11:50am	Daily	WAH 103	Fisher
☯ 5205 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)**

☯ 5203 CMST 104A4 (3)	12-12:50pm	MWF	WAH 115	Fisher
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Examine issues of race and gender in the media from both an historical and a current perspective.

**Public Speaking (H)**

☯ 5206 CMST& 220A4 (5)	8-8:50am	Daily	TAC 340	McQuarrie
☯ 5207 CMST& 220B4 (5)	9-9:50am	Daily	TAC 340	McQuarrie
☯ 5208 CMST& 220C4 (5)	11-11:50am	Daily	WSC 204	Majors
☯ 5209 CMST& 220D4 (5)	12-12:50pm	Daily	TAC 340	McQuarrie
☐☯ 5210 CMST& 220R4 (5)	12-2:20pm	TTh	MOR 101	Barnes

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

☎ 5123 COMM 100AP1 (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

☎ 5133 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

☎ 5134 CAD 115A4 (3) 10-10:50am MWF 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

☐ 5213 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 work site 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 may take the Work Experience Seminar before or in the same quarter as the Co-op course.

## CRIMINAL JUSTICE

### Intro to Law Enforcement

☎ 5194 CJ 104A3 (5) 10-10:50am MTWTh WAH 105 Gilbertson  
+1 hour/week

☎ 5195 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

☎ 5196 CJ 107A3 (5) 11-11:50am MTWTh WAH 105 Gilbertson  
+1 hour/week

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.

### Community Policing

☎ 6124 CJ 109AP1 (5) Online Belden  
Focus on resolving community issues and concerns via Community Oriented Policing and Problem Solving (COPPS) skills and strategies. Pre/corequisite: CJ& 101 or instructor permission.

### Criminal Law

☎ 6125 CJ& 110AP1 (5) Online Belden  
A broad survey of the common criminal laws and statutes of Washington and the other 49 United States. Pre/corequisite: CJ& 101 or instructor permission.

### Criminal Justice Ethics

☎ 6133 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

☎ 5200 CJ 129A3 (5) 12-1:50pm MW WAH 109 Gilbertson  
+1 hour/week

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

☎ 5201 CJ 224A3 (5) 12-1:50pm TTh WAH 105 Gilbertson  
+1 hour/week

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

5215 DET 102A (1) 8am-5pm F TEC 133 McCarthy  
6239 DET 102B (1) 8am-5pm Sa TEC 133 Fay

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. **Class meets 1/25; section B meets 2/2.**

### Mobile Electrical Systems I

☎ 5216 DET 110A3 (7) 8-8:50am MTWTh TEC 135 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 1/2 - 2/8.**

### Mobile Hydraulic Systems

☎ 5217 DET 130A3 (7) 8-8:50am MTWTh TEC 135 Conrad  
10am-2:30pm MTWTh TEC 106 Conrad

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 2/11 - 3/15.**

### Power Transmission II

☎ 5218 DET 210A3 (7) 9-9:50am MTWTh TEC 133 Lipp  
10am-2:30pm MTWTh TEC 135 Lipp

The study of power shift and automatic transmissions as used in diesel powered equipment. Prerequisite: DET 125. Lab fee \$85.69. **Class meets 1/2 - 2/8.**

**Heavy-Duty Chassis Systems**

☎ 5219 DET 225A3 (7) 9-9:50am MTWTh TEC 133 Lipp  
10am-2:30pm MTWTh TEC 135 Lipp

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 2/11 - 3/15.**

**DRAMA****Intermediate Acting (H)**

☎ 6130 DRMA 108A4 (5) 12-2:30pm MW WAH 150 Staff

Continuation of acting fundamentals with an emphasis on improvisational techniques and exercises, and advanced monologue and scene work. Students will be expected to attend two plays during the quarter at their own expense. Prerequisite: DRMA 107 or instructor permission.

**Dramatic Performance (H)**

☎ 5220 DRMA 115A4 (5) ARR ARR ARR Kreilkamp

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)**

☎ 5221 DRMA 120A4 (5) 11-11:50am Daily MSG 115 Kreilkamp

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.

**Multicultural Theatre**

☎ 6129 DRMA 210A4 (5) 10-10:50am Daily WSC 109 Kreilkamp

An introduction to the dramatic literature and contemporary theatre practices of people of color; the study of the intersections of cultures in American society as portrayed in American theatre and performance.

**ECONOMICS****Microeconomics (SS)**

☎ 5234 ECON& 201A4 (5) 10-10:50am Daily WSC 211 Burlingame

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

**Macroeconomics (SS)**

☎ 5237 ECON& 202A4 (5) 9-9:50am Daily WSC 109 Burlingame

☎ 5238 ECON& 202B4 (5) 1-1:50pm Daily WSC 208 Burlingame

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**

☎ 5245 EDUC& 115A4 (5) 1-3:50pm TTh WSC 108 Spain  
1-3:50pm TTh WSC 108 Kirkpatrick

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**

☎ 5246 EDUC& 130AS1 (3) Online Price

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. **This class meets 1/3-3/13; online classroom opens 12/27.**

**School Age Care**

☎ 5247 EDUC& 136AW1 (3) Online Staff

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. **This class meets 1/3-3/13; online classroom opens 12/27.**

**Exceptional Child**

☎ 5248 EDUC& 203A4 (3) 4-6:50pm Th WSC 108 Spain

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.

**Intro to Ed w/Field Exp**

☎ 5249 EDUC& 205AP1 (5) Online Spain

An overview of education in America including history, purpose, philosophies, characteristics, social aspects and current issues. Exploration of teaching as a profession in the K-12 system. Includes 30 hours in K-12 classroom.

**EDUCATION-EARLY CHILDHOOD****Child Care Basics**

☎ 5223 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. **This class meets 1/3-3/13; online classroom opens 12/27.**

**Intro Early Child Ed -SPANISH**

5225 ECED& 105A (5) 2:30-4:30pm M WAH 105 Burkhart  
8:30am-12:30pm Sa WAH 105 Burkhart

Explore the foundations of early childhood education. Examine theories defining field, issues and trends, best practices, and program models. Observe children, professionals and programs in action. Lab fee \$25. Class is taught in Spanish.

**Practicum-Nurturing**

☎ 6165 ECED& 120AP1 (2) Online Minnich

Students gain experience engaging in nurturing relationships with children, keeping children safe and promoting children's growth and development.

**Infants/Toddlers Care**

☎ 5227 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. **This class meets 1/3-3/13; online classroom opens 12/27.**



**Family Child Care**

☎ 5228 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. **This class meets 1/3-3/13; online classroom opens 12/27.**

**Admin Early Lrng Prog**

☎ 5229 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. **This class meets 1/3-3/13; online classroom opens 12/27.**

**Environments-Young Child**

☎ 5230 ECED& 170A4 (3)	4:30-6:50pm	T	WSC 213	Kirkpatrick
	4:30-6:50pm	T	WSC 213	Lovelett
	+1/2 hour/week TBA			

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

**Observation/Assessment**

☎ 5232 ECED& 190A4 (3)	1-3:30pm	W	WSC 213	Spain
	1-3:30pm	W	WSC 213	Kirkpatrick
	+1/2 hour/week TBA			

Collection and documentation of observation and assessment data in order to plan for and support the child, the family, the group and the community. Practice reflection techniques, summarizing conclusions and communicating findings. Lab fee \$10.

**ELECTRONICS/ROBOTICS**

See *Mechatronics* Heading

**ENERGY TECHNOLOGY****Power Generation**

☎ 5525 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**

☎ 5526 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.

**Power Plant Prime Movers**

☎ 5527 PPO 202AT3 (5)	1-3:20pm	T	TAC 338	Steidel
	ARR	Th	ARR	Steidel

Provides a basic background in Prime Movers, focusing on construction, operation, and maintenance of steam turbine, gas turbine, diesel engine, and pump operation and maintenance. Prerequisite: PPO 201.

**ENGINEERING****Applied Numerical Methods**

☎ 5289 ENGR 203A4 (5)	9-9:50am	MTWTh	WSC 106	Threapleton
	12-1:50pm	F	WSC 106	Threapleton

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**

☎ 5291 ENGR& 215A4 (5)	10-10:50am	Daily	WSC 108	Threapleton
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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**

5290 ENGR 270A (12)	ARR	ARR	ARR	Threapleton
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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.

**ENGLISH****Spelling**

5250 ENGL 094N (1-5)	5-7:20pm	TTh	WSC 101	Shriver
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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**

5251 ENGL 095N (1-5)	5-7:20pm	TTh	WSC 101	Shriver
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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**

5252 ENGL 096N (1-5)	5-7:20pm	MW	WSC 101	Shriver
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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**

5253 ENGL 097N (1-5)	5-7:20pm	MW	WSC 101	Shriver
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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**

5254 ENGL 098A (1-5)	10-10:50am	Daily	WAH 113	Shriver
5255 ENGL 098N (1-5)	5-7:20pm	TTh	WSC 101	Shriver
☐ 5256 ENGL 098R (1-5)	10:30am-12:20pm	MW	MOR 108	Nellis
☎ 5257 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 meets at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville.

### Fundamentals of English

5258 ENGL 099A (1-5)	10-10:50am	Daily	WAH 113	Shriver
5259 ENGL 099B (1-5)	11-11:50am	Daily	WSC 210	Burr
5260 ENGL 099C (1-5)	12-12:50pm	Daily	WAH 103	Shriver
5261 ENGL 099N (1-5)	5-7:20pm	TTh	WSC 101	Shriver
□ 5262 ENGL 099R (1-5)	10:30am-12:20pm	MW	MOR 108	Nellis
☞ 5263 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 meets at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville.

### English Composition I (C)

☞ 5267 ENGL& 101A4 (5)	8-8:50am	Daily	WSC 109	Staff
☞ 5268 ENGL& 101B3 (5)	9-9:50am	Daily	WAH 113	William A
☞ 5269 ENGL& 101C3 (5)	9-9:50am	MTWTh	TAC 338	Erickson
	+1 hour/week TBA			
☞ 5270 ENGL& 101D3 (5)	10-10:50am	MTWTh	WAH 115	Ross
	+1 hour/week TBA			
☞ 5271 ENGL& 101E3 (5)	11-11:50am	MTWTh	WSC 213	Erickson
	+1 hour/week TBA			
☞ 5272 ENGL& 101F4 (5)	11-11:50am	Daily	TAC 340	Knott
☞ 5273 ENGL& 101G3 (5)	12-12:50pm	Daily	WSC 110	Waliezer
☞ 5274 ENGL& 101H4 (5)	1-1:50pm	Daily	WSC 111	Knott
☞ 5277 ENGL& 101N3 (5)	5-6:50pm	M	WSC 107	Erickson
	+3 hours/week TBA			
☞ 5275 ENGL& 101JP1 (5)	Online			Foss

An expository writing course encouraging students to think and write with clarity and conciseness; to organize and develop their ideas; and to express themselves sharply, economically, and grammatically. Students must meet mandatory placements to enroll. Prerequisite: placement into ENGL& 101 or 5 credits of ENGL 099 or WRT 105 with a 2.0 or higher.

### Composition II (C)

☞ 5279 ENGL& 102A3 (5)	8-8:50am	Daily	WSC 208	Williams A
☞ 5280 ENGL& 102B3 (5)	9-9:50am	Daily	WSC 208	Weil
☞ 5281 ENGL& 102C3 (5)	10-10:50am	Daily	WSC 206	Waliezer
☞ 5282 ENGL& 102D3 (5)	11-11:50am	Daily	WSC 110	Waliezer
☞ 5283 ENGL& 102E3 (5)	12-12:50pm	Daily	WSC 206	Weil
☞ 5284 ENGL& 102F3 (5)	1-1:50pm	Daily	WSC 206	Williams A
☞ 6102 ENGL& 102N3 (5)	5-6:50pm	M	WSC 111	Young
	+3 hours/week TBA			
☞ 5285 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.

### Intro to Creative Writing (H)

☞ 6135 ENGL 208BP1 (5) Online Foss  
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)

☞ 5288 ENGL& 235AP1 (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)

☞ 5266 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

☞ 5572 WRT 105AP1 (5) Online Foss  
Study a variety of workplace communications, along with proper use of grammar, sentence structure, mechanics and vocabulary within those communications. Prerequisite: 5 credits of ENGL 098 with 2.0+ or placement into ENGL 099/WRT 105.

## ENVIRONMENTAL SCIENCE

### Survey of Env Science (NS)

☞ 5293 ENV& 100A3 (5) 9-9:50am MTWTh WSC 111 Tonn  
+1 hour/week TBA  
☞ 5294 ENV& 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& 100 and ENV& 101.

### Natural Resources Mgmt (NS)

☞ 5292 ENV& 170A3 (5) 10-10:50am MTWTh WSC 111 Carlson L  
+1 hour/week TBA  
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

### Historical Geology w/Lab (NS)

☞ 5303 GEOL& 103A4 (5) 10-10:50am MTWTh WSC 105 Harris  
1-2:50pm Th WSC 105 Harris  
☞ 5304 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. Lab fee \$28.36.

### Natural Hazards and Catastrophes (NS)

☞ 5297 GEOL 108A4 (5) 11-11:50am MTWTh WSC 105 Harris  
1-2:50pm T WSC 105 Harris  
☞ 5298 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

5299 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)

☎ 5319 HLTH 130A4 (3) 9-9:50am MWF MSG 106 Johnson C  
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)

☎ 5321 HLTH 135A4 (2) 9-9:50am TTh MSG 106 Johnson C  
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)

☎ 5322 HLTH 140AP1 (3) Online Johnson C  
The two core components of a healthy lifestyle--a healthy diet and a safe exercise program--will be explored and developed. Students will be expected to exercise on their own. Lab fee \$3.10.

### Global Health Issues (D)(HF)

☎ 6136 HLTH 141RP1 (3) Online Jones  
Introduction to global health issues, with a current events focus. Explore factors impacting the health of people around the world, including biological, socio-economic and environmental factors. Examine issues of water, disease, nutrition, and maternal-child health.

### Stress Management (HF)

☎ 5323 HLTH 143A3 (2) 11-11:50am MW MSG 106 Johnson C  
☎ 5324 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.

### Safety and Fitness (HF)

☎ 5325 HLTH 145A4 (3) 8-8:50am MWF MSG 106 Sanchez  
☎ 5326 HLTH 145BP1 (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. Lab fee \$47.49. **Online course includes on-campus lab requirement. Students must attend one of the in-person training days scheduled 3/5, 1:30-6pm OR 3/7, 3-7:30pm in MSG 106.**

### Community First Aid and CPR

5328 HLTH 154A (1)	8:30am-4pm	Sa	MSG 106	Layton
5329 HLTH 154B (1)	8:30am-4pm	Sa	MSG 106	Layton
5330 HLTH 154C (1)	8:30am-4pm	Sa	MSG 106	Johnson C
5331 HLTH 154D (1)	CANCELED			
5332 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 12/8; section B meets 1/19, section C meets 2/2.**

## HISTORY

### Western Civilization II (SS)

5309 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)

5310 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)

☎ 5311 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)

☎ 5312 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

☎ 5305 H R 110A3 (5) 8-8:50am MWF WAH 115 Staff  
☎ 5306 H R 110B4 (5) 10-10:50am Daily WSC 101 McClain  
☎ 5308 H R 110DP1 (5) Online McClain  
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)

☎ 5336 HUM& 117A4 (5) 9-9:50am Daily WAH 109 Mitchler  
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)

☎ 5333 HUM 270A4 (5) 1-3:20pm TTh WAH 109 Mitchler  
An examination of the social, historical, technical, and artistic aspects of film through viewing, study and discussion of notable motion pictures.

### Lyceum V

5334 HUM 285A (1) 1-1:50pm W WAH 103 Bannish  
The Lyceum offers a variety of lectures on topics of current interest across a wide variety of disciplines. The theme may vary from quarter to quarter.

## INFORMATION TECHNOLOGY

### Computer Science I C++

☎ 5214 CS& 131A3 (5) 3-3:50pm MTWTh WAH 211 Keane  
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.

### Computer Science I JAVA

☎ 6170 CS& 141A3 (5) ARR MTWTh WAH 211 Staff  
A study of rapid application development (RAD) JAVA. Development of GUIs using Swing Technology. Object Oriented Programming as it is implemented in JAVA. Introduction to graphics, animation, and multi-threading. Prerequisite: MATH 099 or equivalent. Lab fee \$25.10.

**Intro to Windows OS**

☎ 5337 IT 117A3 (3) 8-8:50am MWF WAH 212 Coleman  
 ☎ 5338 IT 117B3 (3) 12-12:50pm MWF WAH 212 Coleman

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.

**Computer Hardware**

6168 IT 124A3 (5) **CANCELED**

This course is based on CompTIA A+ certification materials. Material covered includes typical desktop computer components, storage devices, peripherals, expansion cards, display devices, custom configurations, computer networking. Prerequisite: IT 123 or IT 125. Lab fee \$50.

**Linux Operating Systems**

☎ 5339 IT 125A3 (5) 1-1:50pm MTWTh WAH 216 Staff

This course is based on the CompTIA Linux + certification materials. Material covered includes Linux operating system basics, operating system administration, security, network configuration, virtualization and troubleshooting theory. Lab fee \$50.

**Relational Databases**

☎ 5340 IT 150A3 (5) 9-9:50am MTWTh WAH 211 Staff  
 ☎ 6169 IT 150B3 (5) 10-10:50am MTWTh WAH 211 Staff

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**

☎ 5341 IT 201A3 (5) 9-9:50am MTWTh WAH 216 Staff  
 ☎ 6172 IT 201B3 (5) 10-10:50am MTWTh WAH 216 Staff

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 2**

☎ 5343 IT 219A3 (4) 2-2:50pm MTWTh WAH 216 Staff

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 or CNT 218. Lab fee \$25.

**JAVA 2**

☎ 5344 IT 228A3 (5) 12-12:50pm MWF WAH 211 Staff

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 or CST 224. Lab fee \$25.

**CISCO Networking**

☎ 5345 IT 235A3 (5) 3-3:50pm MTWTh WAH 216 Staff  
 +2 hours/week TBA

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. Prerequisite: IT 201 and IT 202. Lab fee \$50.

**Discrete Structures**

☎ 6171 IT 250A3 (4) **CANCELED**

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**

☎ 5346 IT 255A3 (4) 11-11:50am MTWTh WAH 211 Staff

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.

**INTENSIVE ENGLISH PROGRAM****Comprehension Language 1-4**

☎ 5359 IEP 070A4 (1-9) 2-3:50pm Daily TSB 107 Lovelett  
 ☎ 5361 IEP 072A4 (1-9) 2-3:50pm Daily TSB 107 Lovelett  
 ☎ 5363 IEP 074A4 (1-9) 2-3:50pm Daily TSB 107 Lovelett  
 ☎ 5365 IEP 076A4 (1-9) 2-3:50pm Daily TSB 107 Lovelett

In these Comprehension Language Skills courses, students will develop listening and reading comprehension skills needed to succeed in subsequent liberal arts and technical/occupational courses.

**Communicative Language 1-3**

☎ 5360 IEP 071A4 (9) 9-10:50am Daily WSC 205 Burr  
 ☎ 5362 IEP 073A4 (9) 9-10:50am Daily WSC 205 Burr  
 ☎ 5364 IEP 075A4 (9) 9-10:50am Daily WSC 205 Burr

In these Comm Language courses, 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**

☎ 5366 IEP 077A4 (9) 9-10:50am Daily WSC 205 Burr

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. Prerequisite: Official Language Test score or Accuplacer score. Lab fee \$44.95.

**MATHEMATICS****Basic Mathematics**

☎ 5378 MATH 095A4 (1-5) 9-9:50am Daily WSC 108 Spitzer  
 ☎ 5379 MATH 095N4 (1-5) 7:30-8:50pm MTWTh TSB 001 Keahey  
 ☐☎ 5380 MATH 095S4 (1-5) 4:30-6:50pm MW MOR 112 Winkler

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

**Pre-Algebra**

☎ 5381 MATH 096A4 (1-5) 8-8:50am Daily TSB 001 Spitzer  
 ☎ 5382 MATH 096B4 (1-5) 10-10:50am Daily WSC 108 Spitzer  
 ☎ 5383 MATH 096C4 (1-5) 11-11:50am Daily TSB 001 Brosz  
 ☎ 5384 MATH 096D4 (1-5) 1-1:50pm Daily TSB 001 Spitzer  
 ☎ 5385 MATH 096N4 (1-5) 4:30-6:50pm MW LIB 112 Palkowski  
 ☐☎ 5386 MATH 096S4 (1-5) 4:30-6:50pm MW MOR 112 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 sections A4, D4, and N4 have the opportunity to complete MATH 096, 098, 099 in one quarter.

**Algebra for Statistics**

☎ 5387 MATH 097A4 (5) 8-8:50am Daily WSC 215 Brosz

An algebra course for students intending to enroll in MATH& 146, Introduction to Stats. This course does not meet the algebra prerequisite for other quantitative skills courses or for transfer to the University of Washington. Prerequisite: MATH 096 or Compass score of 78+.

**Algebra I**

☎ 5388 MATH 098A4 (1-5) 8-8:50am Daily TSB 001 Spitzer

☎ 5389 MATH 098B4 (1-5) 10-10:50am Daily WSC 215 Brosz

☎ 5390 MATH 098C4 (1-5) 11-11:50am Daily TSB 001 Brosz

☎ 5391 MATH 098D4 (1-5) 1-1:50pm Daily TSB 001 Spitzer

☎ 5394 MATH 098N4 (1-5) 4:30-6:50pm MW LIB 112 Palkowski

☎ 5395 MATH 098S4 (1-5) 4:30-6:50pm MW MOR 112 Winkler

☎ 5396 MATH 098TC3 (1-5) **CANCELED**

☎ 5393 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. Section TC3 meets at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville. Students enrolling in sections A4, C4, D4, and N4 have the opportunity to complete MATH 096, 098, 099 in one quarter.

**Algebra II**

☎ 5397 MATH 099A4 (1-5) 8-8:50am Daily TSB 001 Spitzer

☎ 5398 MATH 099B4 (1-5) 9-9:50am Daily WSC 215 Brosz

☎ 5399 MATH 099C4 (1-5) 11-11:50am Daily TSB 001 Brosz

☎ 5400 MATH 099D4 (1-5) 1-1:50pm Daily TSB 001 Spitzer

☎ 5402 MATH 099N4 (1-5) 4:30-6:50pm MW LIB 112 Palkowski

☎ 5403 MATH 099S4 (1-5) 4:30-6:50pm MW MOR 112 Winkler

☎ 5401 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 sections A4, D4, and N4 have the opportunity to complete MATH 096, 098, 099 in one quarter.

**Math in Society (M)**

☎ 5406 MATH& 107A4 (5) 1-1:50pm Daily WSC 204 Griffith

☎ 5407 MATH& 107BP1 (5) Online Ziegler

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.

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

☎ 5408 MATH& 131A4 (5) 12-1:50pm MWF WSC 109 Taylor

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)**

☎ 5410 MATH& 141A4 (5) 11-11:50am Daily WSC 215 Staff

☎ 5411 MATH& 141ST4 (5) TTh Staff

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)**

☎ 5412 MATH& 142A4 (5) 8-8:50am Daily WAH 103 Carlson C

☎ 5413 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**

☎ 5404 MATH 145A3 (1) 11-11:50am MTWTh NRA Kiekel

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 1/2 - 1/24.**

**Introduction to Stats (M)**

☎ 5414 MATH& 146A4 (5) 9-9:50am Daily WSC 206 Carlson C

☎ 5415 MATH& 146B4 (5) 12-12:50pm Daily WSC 213 Kiekel

☎ 6233 MATH& 146D3 (5) 2:30-3:50pm TTh WSC 213 Carlson C

+2 hours/week TBA

☐ 6162 MATH& 146R (5) 12-2:20pm MW MOR 108 Winkler

☎ 5416 MATH& 146CP1 (5) Online Kiekel

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)**

☎ 5418 MATH& 151A4 (5) 9-9:50am Daily WSC 210 Taylor

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**

☎ 5419 MATH& 163A4 (5) 11-11:50am Daily WSC 101 Carlson C

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**

☎ 5565 TMATH 116A4 (5) 9-9:50am Daily WSC 213Kiekel/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**

5566 TMATH 121A (5) 9-9:50am Daily TAC 332 Steidel

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

### Robotic Controllers

5295 ERA 230A (4) 11-11:50am Daily TAC 331 Peterson D

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

5296 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.

### AC/DC Electronics

5420 MEC 116A (4) 8-8:50am Daily TAC 331 Peterson D

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 Operation

5421 MEC 120A (6) 11am-12:50pm MW TAC 332 Hitch  
10-11:50am TTh TAC 332 Hitch

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

5422 MEC 152A (3) 11-11:50am MTWTh TAC 333 Dunn

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

5423 MEC 153A (5) 10-10:50am MW TAC 333 Dunn  
12-1:50pm TTh TAC 333 Dunn

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

5424 MEC 155A (3) 8-9:50am MW TEC 159 Dunn

Basic preventative 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.

## MEDIA STUDIES

### Writing the Short Film

6243 M ST 122A4 (3) 10-10:50am MWF WAH 140 Fisher

An introduction to the basics of writing the short screenplay. Corequisite: MST 261.

### Sports Announcing for Basketball

5370 M ST 127A4 (1) 2-2:50pm W WAH 115 Fisher

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

5371 M ST 231A4 (3) 12-12:50pm TTh WAH 115 Fisher

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

5372 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

5373 M ST 271A4 (1) ARR ARR WAH 140 Fisher  
5374 M ST 272A4 (2) ARR ARR WAH 140 Fisher  
5375 M ST 273A4 (3) ARR ARR WAH 140 Fisher  
5376 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 instructor permission.

### TV Broadcasting Internship

5377 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

5367 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.

### Medical Administration

5368 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

5369 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)

5478 MUSC&105AP1 (5) Online May

Developing an understanding of music through the study of musical elements and cultural contexts.

**Jazz Ensemble I-VI**

5429	MUSC	124N	(2)	5-6:30pm	TTh	WAH 107	Blaser
5430	MUSC	125N	(2)	5-6:30pm	TTh	WAH 107	Blaser
5431	MUSC	126N	(2)	5-6:30pm	TTh	WAH 107	Blaser
5432	MUSC	127N	(2)	5-6:30pm	TTh	WAH 107	Blaser
5433	MUSC	128N	(2)	5-6:30pm	TTh	WAH 107	Blaser
5434	MUSC	129N	(2)	5-6:30pm	TTh	WAH 107	Blaser

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 may be required. Lab fee \$17.49.

**Beginning Guitar**

5435 MUSC 135A (2) 1:30-2:50pm 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)**

5436 MUSC 139A (5) 9-9:50am Daily WAH 103 Odonel

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 Music (D)(H)**

5437 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)**

5479 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)**

5480 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.

**Concert Choir I-VI**

5438	MUSC	144N	(2)	6:30-9pm	Th	WAH 103Jardine-Tobin	
5439	MUSC	145N	(2)	6:30-9pm	Th	WAH 103Jardine-Tobin	
5440	MUSC	146N	(2)	6:30-9pm	Th	WAH 103Jardine-Tobin	
5441	MUSC	147N	(2)	6:30-9pm	Th	WAH 103Jardine-Tobin	
5442	MUSC	148N	(2)	6:30-9pm	Th	WAH 103Jardine-Tobin	
5443	MUSC	149N	(2)	6:30-9pm	Th	WAH 103Jardine-Tobin	

A vocal ensemble performing both sacred and secular music literature. Availability for up to two evening performances is required. Lab fee \$17.49.

**Applied Flute**

5444 MUSC 150A (1) ARR ARR ARR Odonel

This course teaches 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's permission and/or audition required. Corequisite: ensemble and/or music theory. Lab fee \$300.

**Functional Piano II**

5445 MUSC 152A4 (1) 4-4:50pm T WAH 125 Tillinghast

Functional piano study/skill for music majors. A practical course to accompany the music theory courses. Prerequisite: MUSC 151 or instructor permission (audition required); corequisite: simultaneous enrollment in music theory class.

**Applied French Horn**

5446 MUSC 154A (1) ARR ARR ARR Blaser

**Applied Trumpet**

5447 MUSC 155A (1) ARR ARR ARR Blaser

**Applied Trombone**

5448 MUSC 156A (1) ARR ARR ARR Blaser

**Applied Tuba**

5450 MUSC 157A (1) ARR ARR ARR Blaser

**Applied Euphonium**

5451 MUSC 158A (1) ARR ARR ARR Blaser

**Applied Percussion**

5452 MUSC 159A (1) ARR ARR ARR Blaser

**Applied Piano**

5453 MUSC 160A4 (1) ARR ARR ARR May

**Applied Violin**

5454 MUSC 161A (1) ARR ARR ARR Scarborough

**Applied Viola**

5455 MUSC 162A (1) ARR ARR ARR Scarborough

**Applied Cello**

5456 MUSC 163A (1) ARR ARR ARR Staff

**Applied Double Bass**

5457 MUSC 164A (1) ARR ARR ARR Staff

**Applied Guitar**

5458 MUSC 165A (1) ARR ARR ARR Tillinghast

**Applied Saxophone**

5459 MUSC 166A (1) ARR ARR ARR Blaser

**Applied Voice**

5460 MUSC 167A (1) ARR ARR ARR Colgan

**Applied Composition**

5461 MUSC 168A4 (1) ARR ARR ARR May

**Applied Clarinet**

5462 MUSC 169A (1) ARR ARR ARR Blaser

**Applied Oboe**

5463 MUSC 170A (1) ARR ARR ARR Blaser

**Applied Bassoon**

5464 MUSC 171A (1) ARR ARR ARR Staff

**Applied Harp**

5465 MUSC 172A (1) ARR ARR ARR Scott

These Applied Music 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. Prerequisite: ensemble and/or music theory, and instructor permission. Lab fee \$300.

### Community Band I-VI

5466 MUSC	175N	(2)	7-9pm	T	WAH 150	Blaser
			ARR	T	WAH 150	Blaser
5467 MUSC	176N	(2)	7-9pm	T	WAH 150	Blaser
			ARR	T	WAH 150	Blaser
5468 MUSC	177N	(2)	7-9pm	T	WAH 150	Blaser
			ARR	T	WAH 150	Blaser
5469 MUSC	178N	(2)	7-9pm	T	WAH 150	Blaser
			ARR	T	WAH 150	Blaser
5470 MUSC	179N	(2)	7-9pm	T	WAH 150	Blaser
			ARR	T	WAH 150	Blaser
5471 MUSC	180N	(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

5472 MUSC	185N	(2)	7-9pm	M	WAH 150	Friedlander
			ARR	M	WAH 150	Friedlander
5473 MUSC	186N	(2)	7-9pm	M	WAH 150	Friedlander
			ARR	M	WAH 150	Friedlander
5474 MUSC	187N	(2)	7-9pm	M	WAH 150	Friedlander
			ARR	M	WAH 150	Friedlander
5475 MUSC	188N	(2)	7-9pm	M	WAH 150	Friedlander
			ARR	M	WAH 150	Friedlander
5476 MUSC	189N	(2)	7-9pm	M	WAH 150	Friedlander
			ARR	M	WAH 150	Friedlander
5477 MUSC	190N	(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.

### Music Theory V (H)

5481 MUSC&242A4	(5)	2-2:50pm	Daily	WAH 125	May
5482 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

5483 NURS	102A4	(12)	ARR	ARR	WSC 202	Team Taught
			ARR	ARR	WSC 202	Capen
			ARR	ARR	WSC 202	Sullivan
5484 NURS	102B4	(12)	ARR	ARR	WSC 202	Team Taught
			ARR	ARR	WSC 202	Capen
			ARR	ARR	WSC 202	Sullivan

Progressive competencies reflecting program themes are applied to: nutrition, cardiac, respiratory, and endocrine systems, as well as 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

5485 NURS	202A4	(12)	ARR	ARR	WSC 202	Team Taught
			ARR	ARR	WSC 202	Sullivan
			ARR	ARR	WSC 202	Capen
			ARR	ARR	WSC 202	Schuchmann
5486 NURS	202B4	(12)	ARR	ARR	WSC 202	Team Taught
			ARR	ARR	WSC 202	Capen
			ARR	ARR	WSC 202	Gustafson
			ARR	ARR	WSC 202	Schuchmann

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

## NURSING ASSISTANT

### Nursing Assistant Certification

5313 HLSV	131A	(9)	8am-12pm	MTWTh	TEC 115	Speer
			5:45am-12pm	MTWTh	SCC	Speer
6139 HLSV	131R4	(9)	8:30am-12:20pm	MTW	MOR	Barnes/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. \$192.58. **Section A Clinical dates occur over a 7 day period, dates will be discussed in class. Section R4 clinical group one meets 2/25-3/6, 6am-1pm, clinical group two meets 2/27-3/8, 2-7pm**

### Nurse Delegation

5315 HLSV	132A	(2)	1-4:50pm	MTWTh	TEC 115	Speer
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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 1/28 - 2/5.**

### Mental Health

5316 HLSV	133A	(1)	1-5pm	WTh	TEC 115	Speer
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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 1/23 - 1/24.**

### Dementia

5317 HLSV	134A	(1)	1-5pm	T	TEC 115	Speer
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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 1/17 and 1/22.**

## NUTRITION

### Nutrition (NS)

5487 NUTR&101A4	(5)	9-9:50am	Daily	WSC 110	Jewell
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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 (NS)

☞ 5488 OCEA& 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)

☞ 5517 PHIL& 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)

☞ 5516 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

5518 PHLE 131A (5) 11:30am-12:50pm MW WAH 146 Boerner  
11:30am-2:30pm TTh WAH 146 Boerner

Overview of laboratory procedures and regulations for the medical office laboratory. Prerequisites: BIOL 170 and 172, MA 139 with a 2.5 GPA or higher. Lab fee \$50.35.

## PHYSICAL EDUCATION

### Physical Fitness (HF)

☐ 5489 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

5490 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)

☞ 5491 P E 120A3 (2) 9-9:50am MW MSG 125 Goss  
+1 hour/week TBA

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

### Stretching & Flexibility (HF)

☞ 6101 P E 121A4 (1) 12-12:50pm TTh MSG 200 Johnson  
Learn and perform safe stretches to increase flexibility and range of motion. Understand how stretching can help decrease injury, recover after other workouts and calm the mind and body. Lab fee \$3.10.

### Basic Weight Training/Conditioning (HF)

☞ 5492 P E 123A4 (1) 10-10:50am MW MSG 125 Goss  
Designed to condition the musculature of the body using machine and free weights. Lab fee \$3.10.

### Free Weights (HF)

5493 P E 125A (1) 11-11:50am TTh MSG 130 Johnson C

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

5494 P E 130A (3) ARR Daily MSG 103 Moir  
5495 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.

### Cardio Conditioning (HF)

☞ 5497 P E 142A4 (1) 10-10:50am TTh MSG 200 Goss

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

### Yoga (HF)

☞ 5498 P E 150A4 (1) 9-9:50am TTh MSG 200 Goss  
☞ 5499 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)

☐☞ 5500 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. Previous snowshoeing experience is not required but students must be able to hike/snowshoe a minimum of 3 miles on uneven terrain and must have appropriate clothing for winter conditions. Students may bring their own snowshoes or rent for an additional fee. Transportation is provided via college vans with pickup locations in Centralia and Morton. Lab fee \$30. **Students are required to attend one of the following orientations: Tuesday, 1/8, 5:15pm, in Centralia or Thursday, 1/10, 5:15pm, in Morton. Class meets 1/12, 1/26, 2/9.**

### Pilates/Core (HF)

☞ 5501 P E 152A4 (1) 11-11:50am MW MSG 200 May  
☞ 5502 P E 152B4 (1) 4-4:50pm MW 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)

5503 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)

5504 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

5505 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**

5506 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**

5507 P E 164A (3) ARR MWF MSG 103 Slorey

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)**5508 P E 168A3 (2) 10-10:50am F MSG 106 Haselwood  
+2 hours/week TBA

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**

5510 P E 172A (3) ARR MWF MSG 115 Atkinson

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**

5511 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)**

5512 P E 229AP1 (3) Online 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**5513 P E 230A (3) ARR Daily MSG 103 Moir  
5514 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**

5515 P E 264A (3) ARR MWF MSG 103 Slorey

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 (NS)**

5520 PHYS& 110A4 (5) 12-12:50pm MTWTh WSC 108 Threapleton  
1-2:50pm Th WSC 106 Threapleton  
5521 PHYS& 110B4 (5) 12-12:50pm MTWTh WSC 108 Threapleton  
3-4:50pm Th WSC 106 Threapleton

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 \$16.26.

**Engineering Physics II (NS)**5522 PHYS& 222A4 (5) 8-8:50am MTWTh WSC 108 Threapleton  
1-2:50pm M WSC 106 Threapleton

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 \$18.68.

**Research in Physics**

5519 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)**

5523 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 (D)(SS)**

5524 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)**

5529 PSYC& 100A4 (5) 11-11:50am Daily WAH 109 MacNamara  
5530 PSYC& 100B4 (5) 1-3:20pm TTh WSC 107 MacNamara  
5531 PSYC& 100CP1 (5) Online MacNamara  
5532 PSYC& 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)**5534 PSYC& 200A4 (5) 9-9:50am Daily WSC 107 MacNamara  
5535 PSYC& 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**5536 PSYC& 220AT4 (5) 1-3:20pm MW WSC 211 Starroff  
5537 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**

5538 READ 096N (1-5) 5-7:20pm MW WSC 101 Shriver

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

5539 READ 097A (1-3) 11-11:50am Daily NRA Shriver

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

5540 READ 099A (1-5) 11-11:50am Daily NRA Shriver  
 5541 READ 099N (1-5) 5-7:20pm MW WSC 101 Shriver  
 □ 5542 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

5543 READ 100A (3) 11-11:50am Daily NRA Shriver

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

### Speed Reading

5544 READ 110A (3) ARR ARR NRA Shriver

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(NS)

☞ 6127 SCIE 103A4 (5) 9-9:50am MTWTh WSC 105 Harris  
 1-2:50pm W WSC 105 Harris  
 ☞ 6128 SCIE 103B4 (5) 9-9:50am MTWTh WSC 105 Harris  
 3-4:50pm W WSC 105 Harris

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. Lab fee \$10.

## SOCIOLOGY

### Intro to Sociology (SS)

☞ 5554 SOC& 101A4 (5) 8-8:50am Daily WSC 107 Coffman  
 ☞ 5555 SOC& 101B4 (5) 9-9:50am Daily WSC 111 Coffman  
 ☞ 5556 SOC& 101C4 (5) 11-11:50am Daily WSC 211 Coffman  
 ☞ 5557 SOC& 101DP1 (5) Online Staff

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)

☞ 5558 SOC& 201A4 (5) 10-10:50am Daily WSC 110 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)

☞ 5560 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)

☞ 5561 SPAN& 122A4 (5) 8-8:50am Daily WSC 210 Gorecki  
 ☞ 5562 SPAN& 122B4 (5) 10-10:50am Daily WSC 210 Gorecki  
 ☞ 5563 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.

### Spanish V (H)

☞ 5564 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

5547 SDEV 099A (1-5) 5-7:20pm MW WSC 101 Shriver

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

☞ 5548 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 \$17.94.

### Student Success

☞ 5550 SDEV 150A4 (3) 12-12:50pm Daily WSC 210 Burr  
 ☞ 6206 SDEV 150B4 (3) 12-12:50pm Daily WSC 210 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. **Section A4 meets 1/2 - 2/6; section B4 meets 2/7 - 3/15.**

## WELDING

### Welding for Mechanics

☞ 6173 WELD 151A3 (5) 2-5:30pm TTh TEC 105 Dunn

Introduction of cutting and welding processes. Includes information on welding equipment and material, various welding techniques and proper safety procedures. Prerequisite: DET 110 or DET 130 or instructor permission. Lab fee \$73.78.

**GMAW Welding**

5567 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. Prerequisite: GPA 2.0 or higher in WELD 161 or instructor permission. Lab fee \$143.09.

**Adv. Gas Shielded Arc Welding**

5571 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. This course prepares welders for WABO certification. Prerequisite: WELD 164 or instructor permission. Lab fee \$138.75.

**Shielded Metal Arc Welding**

6244 WELD 181N (5) 5-8:30pm TTh TEC 103 Hegsted  
 Safety, setup, and welding in all positions using gas metal arc welding equipment. Lab fee \$73.78

# 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/>

## Acctg Prin for Mgrs

☎	6105 ACCT	310A4 (5)	10-10:50am	Daily	WSC 213	Crawford
☎	5066 ACCT	310N3 (5)	7-8:50pm	T	WSC 213	Crawford
			+3 hours/week TBA			

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

☎	5067 ACCT	403N3 (5)	7-8:50pm	T	WSC 213	German
			+3 hours/week TBA			

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 instructor permission.

## Material Science of Fluids

☎	6176 DET	325A3 (5)	11am-2:30pm	MTWTh	TEC 159	Lucas
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Formerly: DET 400. Covers: oil, fuel, and coolant properties and functions. Students will perform field sampling and laboratory testing of fluids. Results of testing will be interpreted and explained at a customer level. Prerequisite: Enrollment in BAS-DT or by permission. Lab fee \$100. **Class meets 2/11 - 3/15.**

## Regulatory Issues

☎	6175 DET	335A3 (5)	11am-12:50pm	MTWTh	TEC 154	McCarthy
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Formerly: DET 410. 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 by permission. **Class meets 2/11 - 3/15.**

## Hydraulics II

☎	6174 DET	435A3 (5)	11am-2:30pm	MTWTh	TEC 154	Conrad
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Formerly DET 330. 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 1/2 - 2/8.**

## Combustion Engine Fuels

☎	6177 DET	445A3 (5)	11am-2:30pm	MTWTh	TEC 159	Lucas
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Formerly DET 340. 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 1/2 - 2/8.**

## Issues of Abuse

☎	6120 EDUC	351N3 (2)	7-8:50pm	T	WSC 108	Jager
			+2 hour/week TBA			
☎	6121 EDUC	351NA3 (2)	7-8:50pm	TH	WSC 108	Jager
			+2 hour/week TBA			

Develop skills for working with children from abusive and/or neglectful home environments, including potential behavioral consequences of abuse or neglect and corresponding intervention strategies. **Sections N3 and NA3 meet 1/2 - 2/6.**

## Exceptional Learners

☎	6245 EDUC	410N3 (5)	7-8:50pm	T	WSC 107	Smith
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This course will identify effective, research-based instructional strategies and accommodations and adaptations for learners with diverse academic and behavioral needs; and demonstrate how to make data-based decisions. Prerequisite: Admittance to BAS-TE or administrative permission.

## Classroom Management

☎	6108 EDUC	421NA3 (5)	5-6:50pm	T	WSC 210	Grande
			+2 hours/week TBA			

Students will examine current theory, research, and best practices related to classroom management. Instruction to include employing techniques and strategies for managing individual and group behavior in a variety of instructional settings. Prerequisite: admission into BAS-TE or instructor permission.

## Practicum 2

☎	6109 EDUC	482N3 (2)	7-7:50pm	Th	WSC 110	Smith
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This course allows students to apply the content and strategies learned in Classroom Management as they participate in 33 hours of classroom activities in the elementary classroom. Corequisite: EDUC 421. Lab fee \$6.19.

## Student Teaching Elem 1

☎	6117 EDUC	497N3 (5)	ARR	ARR	ARR	Staff
☎	6118 EDUC	497NA3 (5)	ARR	ARR	ARR	Staff
☎	6119 EDUC	497NB3 (5)	ARR	ARR	ARR	Staff
☎	6207 EDUC	497NC3 (5)	ARR	ARR	ARR	Staff
☎	6208 EDUC	497ND3 (5)	ARR	ARR	ARR	Staff
☎	6209 EDUC	497NE3 (5)	ARR	ARR	ARR	Staff
☎	6210 EDUC	497NF3 (5)	ARR	ARR	ARR	Staff
☎	6211 EDUC	497NG3 (5)	ARR	ARR	ARR	Staff

Supervised instructional experience to develop, implement, practice, and evaluate theory and methods learned. Lab fee \$6.19.

## Ethics (H)

☎	6106 HUM	315A4 (5)	11-11:50am	Daily	WAH 207	Copeland
☎	5335 HUM	315N3 (5)	6-7:50pm	Th	WSC 109	Mitchler
			+3 hours/week TBA			

A 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: admittance into BAS program or administrator approval; five credits of lower division Humanities.

## Software Engineering I

☎	5347 IT	330A3 (5)	4-5:50pm	TTh	WAH 211	Keane
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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

☎	5348 IT	350N3 (5)	6-7:50pm	TTh	WAH 216	Keane
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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 instructor permission. Lab fee \$50.

# BACHELOR OF APPLIED SCIENCE CLASSES

## Business Intelligence App

☎ 5349 I T 420A3 (5) 4-5:50pm MW WAH 211 Murphy

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. Prerequisite: BAS-IT:AD admittance or instructor permission. Lab fee \$50.

## Internship 2

☎ 5350 I T 450N3 (5) 6-7:50pm MW WAH 211 Murphy

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. Prerequisite: BAS-IT:AD admittance or instructor permission. Lab fee \$50.

## Teaching Math (M)

☎ 6111 MATH 315N3 (5) 5-6:50pm T WSC 110 Staff

☎ 6112 MATH 315NA3 (5) 5-6:50pm Th WSC 111 Abbarno

Provides the requisite knowledge and skills to teach K-8 students core math concepts. Current state standards for math learning will be reviewed with a focus on understanding how to teach and apply mathematical concepts.

## Managerial Statistics (M)

☎ 5405 MATH 350N3 (5) 6-7:50pm Th WSC 213 Kiekel  
+3 hours/week TBA

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: lower division Quantitative Skills course.

## Practicum in Management

☎ 6104 MGMT 370A3 (5) 9-9:50am Daily WAH 105 King

☎ 5425 MGMT 370N3 (5) 5-6:50pm T WSC 109 Dreffin  
+3 hours/week TBA

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.

## Project Mgmt Application

☎ 5426 MGMT 410N3 (5) 7-8:50pm T WSC 206 Ward  
+3 hours/week TBA

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

☎ 5427 MGMT 490N3 (5) 5-6:50pm T WSC 206McClain/King  
+3 hours/week TBA

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: BAS 460 or instructor permission.

## Teaching Social Studies (SS)

☎ 6115 SST 365N3 (5) 5-6:50pm T WSC 108 Ryan  
+3 hours/week TBA

Explores the specific concepts and topics in social studies. Applies methods used to teach through integrated thematic units of curriculum and instruction. Incorporating current research and best practices for teaching. Prerequisite: admittance to BAS-TE or administrator approval.

## MORTON SPECIAL INTEREST

### ***Snowshoeing***

□ 5083 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. Previous snowshoeing experience is not required but students must be able to hike/snowshoe a minimum of 3 miles on uneven terrain and must have appropriate clothing for winter conditions. Students may bring their own snowshoes or rent for an additional fee. Transportation is provided via college vans with pickup locations in Centralia and Morton. **Students are required to attend one of the following orientations: Tuesday, 1/8, 5:15pm, in Centralia or Thursday, 1/10, 5:15pm, in Morton. Class meets 1/12, 1/26, 2/9.**

Class fee \$50.

### ***Middle Eastern Dance***

□ 5084 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 \$30.

### ***Better Bones and Balance***

□ 5085 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.

### ***Global Health Topics***

□ 6161 ASI 038S (1) 6-7:30pm W MOR 101 Jones

Students will explore questions such as why is a girl's education one of the most important factors for the health of her future child and community? How do pandemics travel around the world, and what is our current greatest risk? Discuss and explore some of the factors that impact the health of people around the world. Class fee \$25. **Class meets 1/23 - 2/27.**