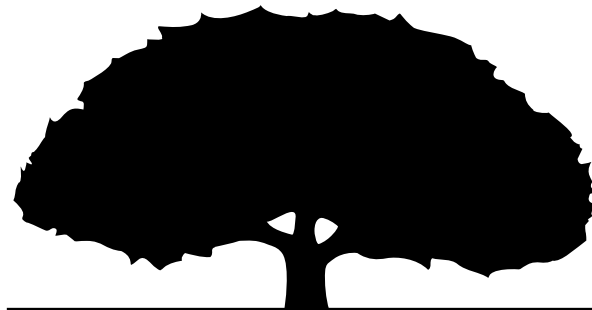


# *Spring 2019*

## *Advising Schedule*



CENTRALIA  
COLLEGE

Spring quarter classes begin April 1, 2019.

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

## SCHEDULE KEY

- ☞ Class has online component(s)
- ☐ Evening class
- ☐ 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

### Basic Computer Accounting

☞ 7042 ACCT 130A3 (3) 8-8:50am MTWTh WAH 205 Lazo  
+1 hour/week TBA

Accounting experience on a personal computer using QuickBooks Pro software. Reinforces procedures learned in ACCT 110 and 120 or ACCT& 201. Students use QuickBooks Pro software to record transactions, prepare financial statements, and payroll. Prerequisite: ACCT& 201 or ACCT 110 and 120. Lab fee \$15.12.

### Principles of Accounting II

☐☞ 7052 ACCT& 202R3 (5) 4-6:20pm T MOR 101 Germann  
+2.5 hours/week TBA

☐☞ 7053 ACCT& 202RP1 (5) Online Germann

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.

### Principles of Accounting III

☞ 7054 ACCT& 203A4 (5) 11-11:50am Daily WAH 113 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.

### Introduction to Audit

☞ 7044 ACCT 210A4 (5) 8-8:50am Daily WAH 113 Thompson

An introduction to the audit environment as it applies to the professional spectrum of financial accounting and reporting. Prerequisite: ACCT& 203.

### Accounting Information Systems

☐☞ 8141 ACCT 220RP1 (5) Online Germann

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

☐☞ 7046 ACCT 240R3 (5) 4-6:20pm Th MOR 108 Germann  
+2.5 hours/week TBA

☐☞ 8140 ACCT 240RP1 (5) Online Germann

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.

### Bookkeeper Cert. Course

☞ 7047 ACCT 285A4 (5) 10-10:50am Daily WAH 214 Thompson

This is the capstone course for accounting students participating in the Associate of Technical Arts (ATA) program and culminating in the student candidacy of either the Certified Bookkeeper (CB), Registered Tax Return Preparer (RTRP), or both. Prerequisite: ACCT& 203, ACCT 240.

## AMERICAN SIGN LANGUAGE

### American Sign Language III

☞ 7072 ASL& 123A4 (5) 12-2:20pm TTh WSC 109 Depuye-Phillips

☞ 7073 ASL& 123B4 (5) 2:30-4:50pm TTh WSC 109 Depuye-Phillips

An in-depth study of American Sign Language applications including conversation regulators, classifiers and locatives, directional verbs and cultural information. Prerequisite: ASL& 122.

## ANTHROPOLOGY

### Cultural Anthropology (D)(SS)

☞ 7058 ANTH& 206A4 (5) 9-9:50am Daily WSC 101 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.

### Bioanthropology w/Lab (NS)

☞ 8100 ANTH& 215A4 (5) 10-10:50am MTWTh TAC 122 Avalos  
1:30-3:20pm F WSC 314 Avalos

☞ 8101 ANTH& 215B4 (5) 10-10:50am MTWTh TAC 122 Avalos  
3:30-5:20pm F WSC 314 Avalos

Exploration of human biology, evolution, paleontology, taxonomy, primatology, genetics and human variation. A student cannot receive credit for both ANTH& 205 and ANTH& 215. Lab fee \$12.07.

### Cultural & Ethnic Pluralism (D)(SS)

☞ 7056 ANTH 225AP1 (5) Online Staff

Examine ethnicity, ethnic identity, and cultural characteristics of ethnic and social groups in North America and around the world. Understand the relationship between social organization and forms of social, economic, and political domination and subordination.

### Myth, Ritual, and Magic (D)(SS)

☞ 7057 ANTH 235A4 (5) 1-3:20pm MW WSC 107 Avalos

An ethnographical overview of the supernatural beliefs of peoples and cultures. Attention is paid to various Anthropological and Sociological theories concerning the nature, cause(s), and source(s) of supernatural belief in world societies.

## ART

**Art Appreciation (D)(H)**

☞ 7066 ART& 100A3 (5) 10-10:50am Daily WAH 109/116 Staff  
 ☐☞ 8142 ART& 100R4 (5) 1-2:30pm MWF MOR 101 Cantin

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)**

☞ 7059 ART 102A4 (5) 1-3:50pm MW WAH 108/116 Frey

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**

☞ 7060 ART 103A4 (5) 1-3:50pm MW WAH 108/116 Frey

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**

☞ 7061 ART 104A4 (5) 1-3:50pm MW WAH 108/116 Frey

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.

**Computer Graphics (H)**

☞ 8130 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.

**Introduction to Fibers (H)**

☞ 7062 ART 160A4 (5) 1-3:50pm TTh WAH 116 Frey

An introduction to fiber art history and techniques with an emphasis on traditional, hand-manipulated processes such as basketry, felting, dyeing and simple loom work. Lab fee \$48.29.

**Digital Photography (H)**

☞ 7063 ART 174A3 (5) 12-12:50pm MTW WAH 209 Solomon  
 1-2:50pm Th WAH 209 Solomon  
 +1 hour/week TBA

An introduction to digital photography as an expressive art form. Students will explore the creative and technical requirements of digital imaging, as well as examine the contributions of contemporary fine artists working in this medium. Prerequisite: basic computer experience required. Lab fee \$54.16.

**Art History: 18th-20th C (D)(H)**

☞ 7064 ART 202A4 (5) 11-11:50am Daily WAH 109 Frey

A survey of the history of art in 15th-20th century Asia and 18th-20th century Europe. Historical developments in architecture, sculpture, painting and other art forms will be examined.

**3D Modeling & Animation (H)**

☞ 7065 ART 220A3 (5) 10-10:50am Daily WAH 209 Solomon

An introduction to 3D modeling, sculpting, motion-graphics, material, rendering and animation. Provides students with knowledge and insights about animation and 3D processes. Prerequisite: ART 130 with 2.0 or higher or instructor permission. Lab fee \$52.

## ASTRONOMY

**The Solar System & the Universe (NS)**

☞ 7074 ASTR 127AP1 (5) Online Garcia

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.

## BIOLOGY

**Human Biology (NS)**

☞ 7081 BIOL& 170A4 (5) 11-11:50am Daily WSC 107 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**

☞ 7075 BIOL 172A4 (1) 2-3:50pm W 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 Organismal Physiology (NS)**

☞ 7082 BIOL& 223A4 (5) 11-11:50am MTWTh WSC 111 Carlson L

2-3:50pm W WSC 303 Jewell

☞ 7083 BIOL& 223B4 (5) 11-11:50am MTWTh WSC 111 Carlson L

4-5:50pm W WSC 303 Jewell

Plant and animal comparative anatomy and physiology. Final course in a three-quarter series (BIOL& 221, 222, and 223). Prerequisite: BIOL& 221 or 222 or instructor permission. Lab fee \$20.96.

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

☞ 7084 BIOL& 242N3 (5) 6-6:50pm W WSC 215 Hutcheon

+3 hours/week TBA

6-7:50pm M WSC 314 Hutcheon

+3 hours/week TBA

☞ 7085 BIOL& 242NN3 (5) 6-6:50pm W WSC 215 Hutcheon

+3 hours/week TBA

4-5:50pm M WSC 314 Hutcheon

+3 hours/week TBA

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.

**Adv Topics Human A & P (NS)**

☞ 7076 BIOL 243A3 (5) 1-1:50pm M WSC 204 Hutcheon

+3 hours/week TBA

ARR ARR WSC 314 Hutcheon

+3 hours/week TBA

Investigate the inheritance of human characteristics and the regulation of gene expression. Trace the development of major organ systems in utero and fetal development. Trace the physiological and anatomical transformations in older individuals. Prerequisite: BIOL& 242 or instructor permission. Lab fee \$18.46.

**Microbiology (NS)**

☯	7086 BIOL&	260A4	(5)	9-9:50am 1-2:50pm	TWTh TTh	WSC 111 WSC 301	Jewell Jewell
☯	7087 BIOL&	260B4	(5)	9-9:50am 3-4:50pm	TWTh TTh	WSC 111 WSC 301	Jewell Jewell

Understand the morphology, physiology, metabolism, genetics, and evolution of microbes. Explore the interactions of pathogenic microbes and human health. Review processes that inhibit microbial disease. Develop skills of culturing, identifying, and manipulating microbes. Prerequisite: one college chemistry course. Lab fee \$31.52.

**Research in Biology**

	7079 BIOL	270A	(12)	ARR	ARR	ARR	Carlson L
	7080 BIOL	270B	(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****Plant Identification & Classification (NS)**

☯	7088 BOTA	113A4	(5)	9-9:50am 1-3:20pm	MTWTh Th	WSC 307 WSC 307	Carlson L Carlson L
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Identification and classification of vascular plants of western Washington with emphasis on important plant families, conservation, and native plant uses. Field trips during labs to observe native plants in local habitats. Lab fee \$17.72.

**Dendrology (NS)**

☯	7089 BOTA	150A4	(5)	10-10:50am 1-3:20pm	MTWTh T	WSC 307 WSC 307	Carlson L Carlson L
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Introduction to biology through trees, from cells and evolution through tree ecology and urban trees. Identification of trees will be featured, including both Pacific Northwest natives and common street trees. Lab fee \$18.44.

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

☯	7122 BUS&	101A4	(5)	11-11:50am	Daily	WAH 115	McClain
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Introduction to the world of business. Emphasis will include functions of business, management, types of business ownership, human resources, production, marketing, ethics, and the role of accounting.

**Business Law**

☯	7123 BUS&	201A3	(5)	9-9:50am	MWF	WAH 115	Staff
				+2 hours/week	TBA		

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.

**Entrepreneurship**

☯	7120 BUS	232AP1	(5)	Online			King
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Experience the challenge and reward of planning a new business. Topics include: development of a business plan, failure factors in small businesses, capital, accounting, financial statements, marketing, human resource management, legal/regulatory issues and management principles. Prerequisite: BUS& 101 and ACCT 200, or instructor permission.

**Project Management**

☯	8145 BUS	250A3	(5)	9-9:50am	MWF	WAH 105	McClain
				+2 hours/week	TBA		

Explore the concept of projects and the unique administrative approach needed to successfully complete a project on time and within budget. Identify the components of projects and the tools available to track project progression.

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

☯	7090 BTEC	101A4	(3)	9-9:50am	Daily	WAH 207	Copeland
☐☯	7092 BTEC	101R4	(3)	ARR	MW	MOR 112	Cantin

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**

☯	7093 BTEC	102A4	(3)	9-9:50am	Daily	WAH 207	Copeland
☐☯	7095 BTEC	102R4	(3)	ARR	MW	MOR 112	Cantin

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.

**Applied Business Math**

☯	7096 BTEC	120A4	(5)	8-8:50am	Daily	WAH 105	Crawford
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Fundamental arithmetic skills applied to a wide range of business activities. Topics include; banking, discounts, payroll, simple interest, markups and markdowns and promissory notes.

**Cooperative Work Experience**

☯	7097 BTEC	190AP1	(12)	Online			Copeland
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See description under Cooperative Work Experience heading.

**Work Experience Seminar**

☯	7098 BTEC	191AP1	(1)	Online			Copeland
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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**

☯	8144 BTEC	203A4	(3)	9-9:50am	Daily	WAH 207	Copeland
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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. Lab fee \$11.04.

**Word 1**

☯	7099 BTEC	210AP1	(5)	Online			Lazo
☐☯	7100 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 35wpm, instructor permission.

**Excel 1**

☞	7101 BTEC	214A3	(5)	12-12:50pm	MTWTh	WAH 205	Lazo
				+2 hours/week	TBA		
☐☞	7102 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**

☞	7103 BTEC	218A3	(4)	11-11:50am	MTWTh	WAH 205	Lazo
				+1 hour/week	TBA		
☐☞	7104 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**

☞	7105 BTEC	219A3	(5)	9-9:50am	MTWTh	WAH 205	Lazo
☐☞	7106 BTEC	219RP1	(5)	Online			Cantin

This course covers advanced Microsoft Word features such as: linked textboxes, outlines, multilevel 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.

**Ten-Key Calculator**

	7107 BTEC	220A	(1)	12-12:50pm	TTh	WAH 207	Copeland
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Touch control of the 10-key calculator with emphasis on speed and accuracy. Complete business calculations using the function keys. Business Math recommended first. Lab fee \$7.15.

**Business Communications**

	7108 BTEC	221A	(5)	10-10:50am	Daily	WAH 207	Copeland
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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**

☐☞	7109 BTEC	222RP1	(1)	Online			Cantin
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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.

**General Office Procedures**

	7110 BTEC	224A	(5)	1-2:20pm	MTWTh	WAH 205	Lazo
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Topics include: professional image, employer expectations, human relations, receptionist techniques, telephone procedures, processing mail, business ethics, job safety, office supplies and equipment, travel and meeting arrangements, reprographics, financial activities, PC cleaning/care, internet and email. Prerequisites: BTEC 110, BTEC 210, BTEC 233, BTEC 214.

**Medical Office Procedures**

	7111 BTEC	261A	(5)	1-2:20pm	MTWTh	WAH 207	Copeland
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Culminating course for Medical Office students. Topics cover the expected skills for successful employment in a medical setting, such as professional image, medical ethics and law, appointment scheduling, office finances, and telephone procedures. Prerequisite: BTEC 107, BTEC 110, BTEC 233, BTEC 260.

**Medical Documentation**

	7113 BTEC	263A	(4)	9-9:50am	Daily	WAH 207	Copeland
				+1 hour/week	TBA		

Medical documentation prepared through the transcription of chart notes, procedure notes, letters, and other medical documents using transcription or speech recognition files. Prerequisite: BTEC 260, BTEC 210, BTEC 110. Lab fee \$7.36.

**Medical Law and Ethics**

☞	7115 BTEC	266AP1	(3)	Online			Scott K
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Overview of medical law/ethics for healthcare professionals in various settings: billing/coding, transcription, phlebotomy, etc. Designed to explain ethical/legal obligations to the patient, employer, and health worker and clarify confidentiality requirements regarding patient records and history.

**CHEMICAL DEPENDENCY****Drug & Alcohol Responses**

☞	7125 CDP	101A4	(5)	12-1:50pm	TTh	TAC 338	Rabe
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Physical, psychological, and behavioral response to alcohol, drugs, and compulsive behaviors. Topics include drug classification, the neurochemistry of addiction, and an overview of basic drug kinetics to include absorption, distribution, metabolism, excretion and physiology. Prerequisite: CDP 100 with a 2.0 or higher.

**Relapse Prevention**

☞	7126 CDP	240AP1	(2)	Online			Rabe
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An overview of the recovery process with an emphasis on Relapse Prevention. Topics include identifying warning signs of relapse, Post-Acute Withdrawal Syndrome, and developing effective relapse prevention strategies and techniques with the client. Prerequisite: CDP 100 with a 2.0 or higher.

**Community Prevention**

☞	8150 CDP	250AP1	(3)	Online			Staroff
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An overview of child and adolescent alcohol and drug abuse prevention. Focus is on the history of prevention, research, community needs assessments and best/promising prevention practices. Students will design and evaluate an effective prevention program. Prerequisite: CDP 100 with 2.0 or higher.

**CDP Supervised Practicum**

	7127 CDP	280A	(5)	8-9:30am	M	WAH 111	Rabe
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Allows the student to bridge their classroom education and training in a supervised practicum in a pre-arranged faculty approved facility for 150 supervised hours that includes a minimum of 50 face-to-face hours under direct supervision. Prerequisite: CPTP certification and practicum placement, 2.0 or higher in core classes.

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

☞	7168 CHEM&	121A4	(5)	11-11:50am	MTWTh	WSC 121	Sprafka
				1-2:50pm	W	WSC 308	Sprafka
☞	7169 CHEM&	121B4	(5)	11-11:50am	MTWTh	WSC 121	Sprafka
				3-4:50pm	W	WSC 308	Sprafka
☞	7170 CHEM&	121N4	(5)	5-6:50pm	M	WSC 121	Sprafka
				+2 hours/week	TBA		
				5-6:50pm	W	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.

**Introduction to Organic/Biochemistry (NS)**

☯ 7171 CHEM& 131A4 (5) 9-9:50am MTWTh WSC 121 Sprafka  
1-2:50pm Th WSC 308 Sprafka

Study of major organic functional groups and their properties and major biochemical compounds including carbohydrates, lipids, proteins, and major cellular energy pathways. Targeted for allied health programs. Prerequisite: CHEM& 121 with a 2.0 or instructor permission. Lab fee \$22.04.

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

☯ 7172 CHEM& 162A4 (6) 10-10:50am MTWTh WSC 213 Sprafka  
1-4:50pm M WSC 308 Sprafka

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.

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

☯ 7173 CHEM& 163A4 (6) 10-10:50am MTWTh WSC 121 Goodwin  
1-4:50pm T WSC 302 Goodwin  
☯ 7174 CHEM& 163B4 (6) 10-10:50am MTWTh WSC 121 Goodwin  
1-4:50pm W WSC 302 Goodwin

Third of a three-quarter sequence. Includes equilibrium, acids and base and solubility equilibria, thermodynamics, electrochemistry, and an introduction to organic and nuclear chemistry. May include polymers, transition metal, and/or coordination chemistry. Prerequisite: CHEM& 162 with a 2.0 or better or instructor permission. Lab fee \$27.69.

**Organic Chemistry w/lab III**

☯ 7175 CHEM& 263A4 (6) 12-12:50pm MTWTh WSC 121 Goodwin  
1-4:50pm Th WSC 302 Goodwin

Complex organic reactions: acids, amines; carbanions, heterocycles; polyfunctional compounds. Prerequisite: CHEM& 262 or equivalent. Lab fee \$27.69.

**Research in Chemistry**

7166 CHEM 270A (12) ARR ARR ARR Sprafka  
7167 CHEM 270B (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****LeaP - Morton**

☐ 7129 CFS 110MOR(2) 9:30-11:30am T MOR Hanson

This class 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. Lab fee \$11.

**Learning with Infants and Toddlers**

7130 CFS 122B (2) 10-11:50am W CEN Hastings  
OR 1-2:50pm W CEN Hastings

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

**Positive Parenting - Online Version**

☯ 7131 CFS 132AP1 (1) Online Kirkpatrick

For busy parents! Intro to tips, tricks, and other parenting survival skills. Class is offered entirely online.

**Level Up Parenting**

7142 CFS 132M (2) 12-1:50pm T HFL Osborne

Ready to up your good parenting skills? Level Up Parenting is the class for you!

**Parenting in Recovery**

7146 CFS 132REC (2) 9:30-11:30am W HFL Osborne

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**

7149 CFS 132SSK (2) 10-11:50am Sa HFL Baker

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 - Onalaska**

8121 CFS 132SFR (2) ARR ARR ARR Scannell

Join us to learn about having family discussions and structured activities designed to have fun while increasing family harmony. Class will be held at Onalaska Middle School.

**CHINESE****Chinese II (H)**

☯ 7176 CHIN& 122A4 (5) 12-12:50pm Daily WSC 208 Wynder

Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 121 or instructor permission.

**Chinese III (H)**

☯ 7177 CHIN& 123A4 (5) 11-11:50am Daily WSC 208 Wynder

Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 122 or instructor permission.

**Chinese VI (H)**

☯ 7178 CHIN& 223A4 (5) 10-10:50am Daily WSC 208 Wynder

Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 222 or instructor permission.

**COMMUNICATION STUDIES****Introduction to Mass Media (H)**

☯ 7189 CMST& 102A4 (5) 11-11:50am Daily WAH 214 Fisher  
☯ 7190 CMST& 102BP1 (5) Online Williams M

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.



**Debate I (H)**

☎ 7188 CMST 130A3 (5) 12-1:20pm MW TAC 340 McQuarrie  
+2 hours/week TBA

Students will learn to analyze, construct and deliver arguments on controversial topics using supportive evidence to respond to opposing viewpoints.

**Public Speaking (H)**

☎ 7191 CMST& 220A4 (5) 8-8:50am Daily TAC 340 McQuarrie  
☎ 7192 CMST& 220B4 (5) 9-9:50am Daily TAC 340 McQuarrie  
☎ 7193 CMST& 220C4 (5) 11-11:50am Daily TAC 340 McQuarrie  
☎ 7194 CMST& 220D4 (5) 12-12:50pm Daily WAH 105 Majors  
☎ 7195 CMST& 220EP1 (5) Online McQuarrie

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

**COMMUNICATIONS****Dragon NaturallySpeaking**

☎ 7197 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.

**COOPERATIVE WORK EXPERIENCE****Cooperative Work Experience**

☐ 7198 COOP 190RE (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 hours on-the-job per quarter. Instructor 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 Criminal Justice**

☎ 7185 CJ& 101A3 (5) 10-10:50am MTWTh WAH 105 Gilbertson  
+1 hour/week

Examines local, state and Federal law enforcement agencies and the judicial and correctional systems. Career opportunities and qualifying requirements are studied. Lab fee \$15.31.

**Community Policing**

☎ 7179 CJ 109A3 (5) 12-1:50pm TTh WAH 113 Gilbertson  
+1 hour/week

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. Lab fee \$15.31.

**Criminal Law**

☎ 7186 CJ& 110A3 (5) 11-11:50am MTWTh WAH 105 Gilbertson  
+1 hour/week

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. Lab fee \$14.37.

**Criminal Justice Ethics**

☎ 7181 CJ 111A3 (5) 12-1:50pm MW WAH 113 Gilbertson  
+1 hour/week

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. Lab fee \$15.31.

**Criminology**

☎ 8124 CJ& 112AP1 (5) Online Belden

Examines social components of crime, deviance, criminality, and societal reactions to crime. Includes discussion of causes and impacts of crime on society, classifications and theoretical interpretations of crime and the criminal justice system.

**Reports, Forms & Affidavits**

☎ 7182 CJ 204AP1 (5) Online Belden

Investigative report writing including narratives, police reports, common forms, affidavits, and search warrants.

**Crime Scene Photography**

☎ 7184 CJ 228A3 (5) 1-3:50pm Th WSC 110 Belden  
+2 hours/week

Practical application of basic crime scene photography methods and techniques for criminal investigations studied. Skills designed to capture the details of automobile accidents, misdemeanor, and felony crime scenes are discussed and practiced. Lab fee \$14.88.

**Intro Forensic Science**

☎ 7187 CJ& 240AP1 (5) Online Belden

Introductory course in forensic science examines physical evidence and laboratory analysis in criminal investigations. Skills and procedures required for collection, preservation, and identification of physical evidence are studied. Diagramming of crime scenes is practiced.

**DIESEL EQUIPMENT TECHNOLOGY****Forklift Certification**

7200 DET 102A (1) 8am-5pm ARR TEC 133 McCarthy

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

**Internal Combustion Engines I**

☎ 7201 DET 120A3 (7) 9-9:50am MTWTh TEC 133 Dunn  
10am-2:30pm MTWTh TEC 133 Dunn

This course covers the operating principles of internal combustion engines. A variety of diesel engines will be disassembled and re-assembled with the use of service manuals. Prerequisite: DET 110 or instructor permission. Lab fee \$69.47. **Class meets 4/1 - 5/2.**

**Shop Skills for Welders**

☎ 7202 DET 166A3 (3) 3-3:50pm MTWTh TEC 133 McCarthy

Develop practical work skills and work habits in the student. Includes safety procedures and practices, proper use and maintenance of common shop equipment and common processes and materials of metal products fabrication and manufacturing. Lab fee \$69.27.

**Cooperative Work Experience**

☎ 7203 DET 190A3 (1-15) ARR ARR ARR McCarthy

See description under Cooperative Work Experience heading.

**Practical Shop Applications**

☎ 7204 DET 230A3 (7) 9-9:50am MTWTh TEC 133 McCarthy  
10am-2:30pm MTWTh TEC 106 McCarthy

The discussion and implementation of proper shop practices and repair procedures. Lab fee \$104.01. **Class meets 5/6 - 6/10.**

**Mobile HVAC Systems**

☎ 7205 DET 235A3 (7) 8-8:50am MTWTh TEC 133 Lucas  
10am-2:30pm MTWTh DSL 106 Lucas

The theory and application of basic principles used in Heating Ventilation and Air Conditioning (HVAC) systems of diesel powered equipment. Lab fee \$87.69. **Class meets 4/1 - 5/2.**

**DRAMA****Dramatic Performance (H)**

☎ 7211 DRMA 115A4 (5) ARR ARR WAH 150 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.

**Musical Theatre (H)**

☎ 8147 DRMA 118A4 (5) 10-10:50am Daily WAH 113 Kreilkamp

The study of musical theatre, its major works, its significance in theatre history, and its role in American culture with an emphasis on production elements and the play in performance.

**Directing**

☎ 8133 DRMA 130A4 (5) 1-2:50pm TTh WAH 150 Kreilkamp

An introduction to the theories, methods, and processes of directing a theatrical production. The course will culminate in the performance of a short play, which will be shown to the public. Prerequisites: DRMA& 101, DRMA 107, and DRMA 108.

**Contemporary World Theatre**

☎ 8132 DRMA 205AP1 (3) Online Kreilkamp

Introduces contemporary world theatre using the theatrical productions of the Pacific N.W. Regional theatres and the Broadway theatres of NY City as a case study. Travel to and study of these productions. Visits to additional cultural events/locales will be included.

**Basic Acting Technique**

☐ 8136 DRMA 297R (2) 11am-12:50pm Sa MOR Hartman

This acting class is for students wanting to bring their level of technique to a higher skill set. Using Uta Hagen's "Respect for Acting," this in-depth study will include exercises and scene studies with Chekhov's rich dramas. This class is useful for all levels, open minds are encouraged, and hard work is valued. Class meets at the Tiller Art Center in Morton.

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

☎ 7224 ECON& 201A4 (5) 12-12:50pm Daily WSC 110 Burlingame

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

**Macroeconomics (SS)**

☎ 7226 ECON& 202A4 (5) 9-9:50am Daily WSC 213 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****Guiding Behavior**

☎ 7228 EDUC& 130AW1 (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. **Class meets 4/4-6/12; online classroom opens 3/28.**

**Intro to Ed w/Field Experience**

☎ 8149 EDUC& 205A3 (5) 12-1:40pm TTh WSC 211 Spain  
+4 hours/week TBA

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 a K-12 classroom.

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

☎ 7217 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. **Class meets 4/4-6/12; online classroom opens 3/28.**

**Health/Safety/Nutrition**

☎ 7218 ECED& 107A3 (5) 4-6:30pm T WSC 108 Spain  
+2.5 hours/week TBA

Develop knowledge and skills to ensure good health, nutrition, and safety of children in group care and education programs. Recognize the signs of abuse and neglect, responsibilities for mandated reporting, and available community resources.

**Infants/Toddlers Care**

☎ 7219 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. **Class meets 4/4-6/12; online classroom opens 3/28.**

**Administration Early Learning Programs**

☎ 7220 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. **Class meets 4/4-6/12; online classroom opens 3/28.**

**Curriculum Development**

☎ 7221 ECED& 160A4 (5) 4-6:15pm MW WSC 213 Kirkpatrick  
4-6:15pm MW WSC 213 Lovelett

Investigate learning theories and create curriculum that enhances the development of language, fine/gross motor, social-emotional, cognitive and creative skills in young children.

**Language and Literacy**

☎ 8241 ECED& 180A4 (3) 1-3:30pm W WSC 110 Spain  
1-3:30pm W WSC 110 Kirkpatrick

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



**ECE Practicum 2**

☞ 7215 ECED 233A4 (5) 1-3:30pm M HFL Spain  
+8 hours/week TBA

Develop a professional understanding of teaching methods and practices with an opportunity to evaluate teaching skills and learning environment. Prerequisite: 30 ECE credits or instructor permission. Lab fee \$10.

**ELECTRONICS/ROBOTICS**

See *Mechatronics Heading*

**ENERGY TECHNOLOGY****Electric Utility Distribution System**

☞ 7510 PPO 103AT3 (5) 1-3:20pm M TAC 338 Crawford  
Continuing coverage of power systems, boilers and prime movers. Prerequisite: PPO 102.

**Industrial Safety**

☞ 7511 PPO 130AT3 (5) 1-3:20pm W TAC 338 Crawford  
Industrial safety practices, procedures, and equipment as found in modern power plants. Also included will be basic first aid and CPR, and basic fire fighting equipment and procedures. Basic rigging will be taught stressing safety. Prerequisite: PPO 102.

**Plant Operations Refrigeration & HVAC**

☞ 7512 PPO 203AT3 (5) 1-3:20pm T TAC 332 Steidel  
Provides a background in refrigeration, heating, ventilation and air conditioning; and lighting. Prerequisite: PPO 202.

**ENGINEERING****Engineering Graphics I**

☞ 7275 ENGR& 111A4 (2) ARR MTWTh TAC 332 Hitch  
Introduces the basic concepts of engineering graphics through freehand sketching and computer-aided drafting. Includes orthographic projection, section and auxiliary views, dimensioning and text. **Class meets 4/1 - 4/25.**

**Electrical Circuits**

7277 ENGR& 204A (5) 10-10:50am MTWTh WSC 108 Threapleton  
1-2:50pm F WSC 106 Threapleton

An introduction to basic electrical circuits and systems. Topics include: basic analysis techniques; nodal and mesh analysis; Thevenin and Norton equivalent circuits; operational amplifiers; step, natural and steady state circuit response. Concurrent enrollment in MATH 212 is recommended. Prerequisite: MATH& 152 and PHYS& 222.

**Statics**

7278 ENGR& 214A (5) 12-12:50pm Daily WSC 108 Threapleton

First of a three-course sequence. The basic principles of vector statics; friction, analytical and graphical methods of solving force systems including frames, trusses, and other simple mechanisms; centroids and moments of inertia; chains and cables. Corequisite: MATH& 151.

**Research in Engineering**

7274 ENGR 270A (12) ARR ARR ARR Threapleton

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

**ENGLISH****Spelling**

7230 ENGL 094N (1-5) 5-7:20pm TTh WSC 111 Shriver  
☞ 7231 ENGL 094R4 (1-5) 12:30-2:50pm MW MOR 108 Nellis

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**

7232 ENGL 095N (1-5) 5-7:20pm TTh WSC 111 Shriver

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**

7233 ENGL 096N (1-5) 5-7:20pm MW WSC 111 Shriver  
☞ 7234 ENGL 096R4 (1-5) 12:30-2:50pm MW MOR 108 Nellis

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**

7235 ENGL 097N (1-5) 5-7:20pm MW WSC 111 Shriver

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**

7236 ENGL 098A (1-5) 10-10:50am Daily MSG 115 Shriver  
7237 ENGL 098N (1-5) 5-7:20pm TTh WSC 111 Shriver  
☞ 7238 ENGL 098R4 (1-5) 12:30-2:50pm MW MOR 108 Nellis

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.

**Fundamentals of English**

7240 ENGL 099A (1-5) 10-10:50am Daily MSG 115 Shriver  
7241 ENGL 099B (1-5) 11-11:50am Daily WSC 204 Burr  
7242 ENGL 099C (1-5) 12-12:50pm Daily WSC 204 Shriver  
7243 ENGL 099N (1-5) 5-7:20pm TTh WSC 111 Shriver  
☞ 7244 ENGL 099R4 (1-5) 12:30-2:50pm MW MOR 108 Nellis

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.

**English Composition I (C)**

☞	7249 ENGL& 101A4	(5)	8-8:50am	Daily	WSC 111	Knott
☞	7250 ENGL& 101B3	(5)	9-9:50am	MTThF	TAC 338	Erickson
			+1 hour/week TBA			
☞	7251 ENGL& 101C3	(5)	10-10:50am	Daily	TAC 338	Ross
☞	7252 ENGL& 101D3	(5)	11-11:50am	MTThF	TAC 338	Erickson
			+1 hour/week TBA			
☞	7253 ENGL& 101E3	(5)	12-12:50pm	Daily	WAH 103	Waliezer
☞	7254 ENGL& 101F4	(5)	1-1:50pm	Daily	WSC 206	Knott
☞	7257 ENGL& 101TC3	(5)	11:30am-12:50pm	TWTh	CTC	Johnson R
☞	7255 ENGL& 101GP1	(5)	Online			Davidson

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, WRT 105, or BTEC 221 with 2.0 or higher. **Section TC3 is held at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville.**

**Composition II (C)**

☞	7258 ENGL& 102A3	(5)	8-8:50am	Daily	WSC 206	Weil
☞	7259 ENGL& 102B4	(5)	9-9:50am	Daily	WAH 113	Ross
☞	7260 ENGL& 102C3	(5)	10-10:50am	Daily	WAH 103	Waliezer
☞	7262 ENGL& 102D3	(5)	11-11:50am	Daily	WAH 103	Waliezer
☞	7264 ENGL& 102E3	(5)	12-12:50pm	Daily	WSC 206	Weil
☞	7266 ENGL& 102F3	(5)	12-12:50pm	MTWTh	WSC 101	Williams A
			+1 hour/week TBA			
☞	7267 ENGL& 102G3	(5)	1-1:50pm	MTWTh	WSC 101	Williams A
☞	7270 ENGL& 102N3	(5)	5-6:50pm	M	WSC 107	Young
			+3 hours/week TBA			
☞	7268 ENGL& 102HP1	(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.

**Women's Literature (D)(H)**

☞	7246 ENGL 160AP1	(5)	Online			Williams A
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Examines literature written by women to understand how gender, class and race shape their experience and their writing. Genres will include poetry, short stories, non-fiction, fiction and drama. College-level reading and writing skills expected.

**Short Fiction (H)**

☞	8138 ENGL 180R3	(5)	9-10:50am	MW	MOR 108	Barnes
			+1 hour/week TBA			

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

**Science Fiction (H)**

☞	7248 ENGL 251A3	(5)	11-11:50am	Daily	WSC 206	Weil
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Surveys rise and development of science fiction, focusing on short stories; students may address novels in course projects. Explores common themes: SF as social commentary; technology; war; relationships; race; gender; defining "human". Creative writing options.

**Writing in the Workplace**

☞	7563 WRT 105A4	(5)	8-8:50am	Daily	WAH 207	Erickson
☞	7564 WRT 105BP1	(5)	Online			Williams M

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 Environmental Science (NS)**

☞	7279 ENV5& 100A3	(5)	10-10:50am	MTWTh	WSC 206	Tonn
			+1 hour/week TBA			

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 ENV5& 100 and ENV5& 101.

**GEOLOGY****Intro Physical Geology (NS)**

☞	7288 GEOL& 101A4	(5)	10-10:50am	MTWTh	WSC 105	Harris
			1-2:50pm	W	WSC 105	Harris
☞	7289 GEOL& 101B4	(5)	10-10:50am	MTWTh	WSC 105	Harris
			3-4:50pm	W	WSC 105	Harris

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

**Physical Geology II (NS)**

☞	8126 GEOL 102A4	(5)	11-11:50am	MTWTh	WSC 105	Harris
			1-2:50pm	Th	WSC 105	Harris
☞	8127 GEOL 102B4	(5)	11-11:50am	MTWTh	WSC 105	Harris
			3-4:50pm	Th	WSC 105	Harris

Introduces the processes that shape the landscape. Includes the study of mass wasting, river dynamics, groundwater sources, glacial landforms, deserts, and coastal processes. One or more field trips may be required. Includes lab. Prerequisite: MATH 098. Lab fee \$27.10.

**Natural Hazards and Catastrophes (NS)**

☞	7285 GEOL 108A4	(5)	9-9:50am	MTWTh	WSC 105	Harris
			1-2:50pm	T	WSC 105	Harris
☞	7286 GEOL 108B4	(5)	9-9:50am	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**

	7287 GEOL 270A	(12)	ARR	ARR	ARR	Harris
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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.

**HEALTH****Women's Health Issues (D)(HF)**

☞	7301 HLTH 120RP1	(3)	Online			Jones
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An opportunity to examine current women's health and well-being issues.

**Health & Wellness (HF)**

☞ 7302 HLTH 130A4 (3) 9-9:50am MWF MSG 115 Johnson C  
☐☞ 7303 HLTH 130R3 (3) 11-11:50am TWTh MOR 101 Jones

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

**Healthy Weight Control (HF)**

☐☞ 8238 HLTH 135R3 (2) 3-4:20pm Th MOR 101 Johnson C  
+1 hour/week TBA

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)**

☞ 7304 HLTH 140A4 (3) 12-12:50pm MWF MSG 115 Johnson C  
☞ 7305 HLTH 140BP1 (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.

**Stress Management (HF)**

☞ 7306 HLTH 143A3 (2) 9-9:50am TTh MSG 115 Johnson C  
☞ 7307 HLTH 143BP1 (2) Online Johnson C

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

**Technology Health/Fitness (HF)**

☞ 7308 HLTH 144A4 (2) 11-11:50am MW MSG 115 Johnson C

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

**Safety and Fitness (HF)**

☞ 7309 HLTH 145A4 (3) 8-8:50am MWF MSG 106 Sanchez  
☞ 7310 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 \$48.25. **Online class has a required on-campus lab. Choose one: 5/29, 1-5:30pm OR 5/30 3:30-8pm.**

**Community First Aid and CPR**

7312 HLTH 154A (1) 8:30am-4pm Sa MSG 106 Layton  
7313 HLTH 154B (1) 8:30am-4pm Sa MSG 106 Layton

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.

**HISTORY****Western Civilization III (SS)**

7294 HIST& 118A (5) 10-10:50am Daily WSC 204 Peterson J

Analysis of the late 19th and 20th centuries with special attention paid to the development of political, social and economic trends and events.

**US History I (SS)**

☞ 7295 HIST& 146AP1 (5) Online Mayfield

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

**US History II (SS)**

☞ 7296 HIST& 147A4 (5) 8-8:50am Daily WSC 110 Mayfield

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)**

7297 HIST& 148A (5) 12-12:50pm Daily WSC 215 Peterson J

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

**HUMAN RELATIONS****Human Relations-Workplace**

☞ 7290 H R 110A3 (5) 10-10:50am MWF WAH 115 McClain  
+2 hours/week TBA

☞ 7291 H R 110B3 (5) 12-1:20pm TTh WAH 109 McClain  
+2 hours/week TBA

☐☞ 7293 H R 110R3 (5) 9-10:20am TTh MOR 108 Barnes  
+2 hours/week TBA

☞ 7292 H R 110CP1 (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 III (H)**

☞ 7318 HUM& 118A4 (5) 9-9:50am Daily WAH 109 Knott

A survey of the major movements in art, architecture, music, philosophy, and literature in a historical context, from 1800 C.E. to the present.

**Lyceum VI**

7315 HUM 286A (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++**

☞ 7199 CS& 131A3 (5) 1-1:50pm 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.

**Intro to Windows OS**

☞ 7319 IT 117A4 (3) 8-8:50am MWF WAH 211 Staff

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.

**Web Scripting 1**

☞ 7320 IT 119A3 (5) 2-2:50pm MTWTh WAH 211 Keane

Designed for new web designers who want to develop, modify and design standards compliant web pages and sites using the HTML and CSS Languages. Students will be publishing their work on a web server. Lab fee \$50.

### Network Security

7322 IT 203A3 (5) 11-11:50am MTWTh WAH 216 Staff  
 Course concentrates on materials commonly associated with Security+ certification. Coverage includes risk identification, intrusion detection, encrypted communication, firewalls and basic forensics. Prerequisite: IT 201 and IT 202. Lab fee \$50.

### Server OS 1

8154 IT 218A (5) ARR ARR WAH 216 Staff  
 This is a first course on server installation, configuration and management. Coverage includes Active Directory fundamentals, DHCP, DNS and the basics of setting up and managing a web server. Prerequisite: IT 123. Lab fee \$50.

### Server OS 2

8155 IT 219A (4) ARR ARR WAH 216 Staff  
 This is a second course on server installation, configuration and management. Coverage includes server content management systems, PHP, Microsoft Exchange and Office 365. Prerequisite: IT 218. Lab fee \$25.

### Server OS 3

7323 IT 220A3 (5) 1-1:50pm MTWTh WAH 216 Staff  
 This is the third course on server installation, configuration and management. Coverage includes MS SQL, Lync, Hyper-V and an introduction to cloud computing. Prerequisite: IT 219. Lab fee \$25.

### JAVA 2

8151 IT 228AP1 (5) Online Small  
 Second course in the introduction to Java programming sequence. These topics include: abstract data structures, lists, stacks, queues, linked lists, maps, recursion, interfaces, encapsulation, serialization, file access, sorting and computational complexity. Prerequisite: IT 224. Lab fee \$25.

### JAVA 3

7324 IT 230A3 (5) 12-12:50pm MWTh WAH 211 Carlson C  
 Third and final course in the introduction to Java programming sequence. This course covers recursion, exception handling and recover, remote file access, event driven programming, binary search trees, and priority queues. Prerequisite: IT 224 and IT 228. Lab fee \$25.

### CISCO Networking

8156 IT 235A (5) ARR ARR WAH 216 Staff  
 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.

### Object-Oriented Programming

8240 IT 245A3 (4) 10-10:50am MTWTh WAH 211 Taylor  
 An intermediate level course in object-oriented programming. Course covers creating classes from requirement documents, modeling using diagrams, object-relationship analysis, object reuse and good software design. Experience with one or more computer programming languages recommended. Lab fee \$50.

## INTENSIVE ENGLISH PROGRAM

### Comprehension Language Levels 1 - 4

7330 IEP	070A4	(1-9)	1-2:50pm	Daily	MSG 106	Lovelett
7332 IEP	072A4	(1-9)	1-2:50pm	Daily	MSG 106	Lovelett
7334 IEP	074A4	(1-9)	1-2:50pm	Daily	MSG 106	Lovelett
7336 IEP	076A4	(1-9)	1-2:50pm	Daily	MSG 106	Lovelett

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

### Communicative Language Levels 1 - 3

7331 IEP	071A4	(9)	9-10:50am	Daily	MSG 106	Burr
7333 IEP	073A4	(9)	9-10:50am	Daily	MSG 106	Burr
7335 IEP	075A4	(9)	9-10:50am	Daily	MSG 106	Burr

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

### Communicative Language Level 4

7337 IEP	077A4	(9)	9-10:50am	Daily	MSG 106	Burr
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In this Level 4 Comm Language course, students will develop speaking, grammar, and composition skills needed to succeed in subsequent liberal arts and technical/occupational courses. Prerequisite: Official Language Test score or Accuplacer score. Lab fee \$44.95.

## MATHEMATICS

### Basic Mathematics

7352 MATH	095A4	(1-5)	9-9:50am	Daily	WSC 108	Spitzer
7353 MATH	095N4	(1-5)	7:30-8:50pm	MTWTh	TSB 001	Keahey
7354 MATH	095S4	(1-5)	4:30-6:50pm	MW	MOR 108	Winkler

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

### Pre-Algebra

7355 MATH	096A4	(1-5)	7-7:50am	Daily	TSB 001	Spitzer
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Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

8184 MATH	096B4	(1-5)	8-8:50am	Daily	TSB 001	Staff
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Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

7356 MATH	096C4	(1-5)	10-10:50am	Daily	WSC 215	Brosz
7357 MATH	096D4	(1-5)	11-11:50am	Daily	TSB 001	Brosz

Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

7358 MATH	096E4	(1-5)	1-1:50pm	Daily	TSB 001	Spitzer/Keahey
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Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

7359 MATH	096N4	(1-5)	4:30-6:50pm	MW	LIB 112	Palkowski
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Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

7360 MATH	096S4	(1-5)	4:30-6:50pm	MW	MOR 108	Winkler
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Covers percents, proportions, unit conversions, geometry, simplifying algebraic expressions and solving simple first degree linear equations. Prerequisite: MATH 095 or appropriate test score placement.



**Algebra for Statistics**

☞ 7362 MATH 097A4 (5) 8-8:50am Daily WSC 208 Brosz

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

**Algebra I**

☞ 7363 MATH 098A4 (1-5) 7-7:50am Daily TSB 001 Spitzer  
Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

☞ 8185 MATH 098B4 (1-5) 8-8:50am Daily TSB 001 Staff  
Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

☞ 7364 MATH 098C4 (5) 9-9:50am Daily WSC 110 Ziegler

☞ 7365 MATH 098D4 (1-5) 11-11:50am Daily TSB 001 Brosz  
Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

☞ 7366 MATH 098E4 (1-5) 1-1:50pm Daily TSB 001 Spitzer/Keahey  
Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

☞ 7368 MATH 098N4 (1-5) 4:30-6:50pm MW LIB 112 Palkowski  
Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

☞ 7369 MATH 098S4 (1-5) 4:30-6:50pm MW MOR 108 Winkler

☞ 7367 MATH 098FP1 (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.

**Algebra II**

☞ 7370 MATH 099A4 (1-5) 7-7:50am Daily TSB 001 Spitzer  
Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

☞ 8186 MATH 099B4 (1-5) 8-8:50am Daily TSB 001 Staff  
Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

☞ 7371 MATH 099C4 (1-5) 10-10:50am Daily WSC 110 Ziegler

☞ 7372 MATH 099D4 (1-5) 11-11:50am Daily TSB 001 Brosz  
Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

☞ 7373 MATH 099E4 (1-5) 1-1:50pm Daily TSB 001 Spitzer/Keahey  
Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

☞ 7375 MATH 099N4 (1-5) 4:30-6:50pm MW LIB 112 Palkowski  
Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.

☞ 7376 MATH 099S4 (1-5) 4:30-6:50pm MW MOR 108 Winkler

☞ 7374 MATH 099FP1 (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.

**Math in Society (M)**

☞ 7381 MATH& 107A4 (5) 1-1:50pm Daily WSC 208 Griffith

☞ 7382 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.

**Discrete Structures (M)**

☞ 7377 MATH 128A4 (5) 10-10:50am Daily WSC 111 Carlson C

This class is designed to introduce mathematical concepts and applications in computer science. Topics include logic, permutations and combinations, graphs and trees, recursion, and basic modular arithmetic. Prerequisite: MATH 099 or Instructor permission.

**Math for Elem Educ 2 (M)**

☞ 7386 MATH& 132A4 (5) 12-1:50pm MWF WSC 211 Taylor

The second of two courses designed to provide the conceptual framework for teaching mathematics from kindergarten through eighth grade. Prerequisite: MATH& 131.

**Pre-Calculus I (M)**

☞ 7387 MATH& 141A4 (5) 8-8:50am Daily WSC 204 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)**

☞ 7388 MATH& 142A4 (5) 11-11:50am Daily WAH 212 Staff

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**

☞ 7378 MATH 145A3 (1) 11-11:50am MTWTh WSC 205 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 4/1-4/24.**

**Introduction to Stats (M)**

☞ 7390 MATH& 146A4 (5) 12-12:50pm Daily WSC 213 Kiekel

☞ 7391 MATH& 146B4 (5) 1-1:50pm Daily WSC 213 Kiekel

☞ 7394 MATH& 146N3 (5) 5-6:50pm T WSC 213 Kiekel

+3 hours/week TBA

☞ 7392 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)**

☞ 7396 MATH& 151A4 (5) 8-8:50am Daily WSC 215 Carlson C

☞ 7397 MATH& 151BP1 (5) Online Kiekel

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 II (M)**

☞ 7398 MATH& 152A4 (5) 9-9:50am Daily WSC 107 Taylor

The second in a four-quarter sequence. Covers the calculus of transcendental functions (exponential, logarithm, inverse circular, hyperbolic), techniques of integration, sequences, series, and power series. Prerequisite: MATH& 151 or equivalent.

**Elementary Differential Equations**

☯ 7379 MATH 212A4 (5) 11-11:50am Daily WSC 108 Carlson C

Linear ordinary differential equations with emphasis on supporting concepts of differential operators, Wronskians, characteristic polynomials, homogeneous and nonhomogeneous cases, variation of parameters, undetermined coefficients. Solution of IVP by Laplace transforms and power series method. Prerequisite: MATH& 163.

**Calculus IV**

☯ 7380 MATH 264A4 (3) 1-2:20pm TTh WSC 204 Taylor

Fourth in a four-quarter sequence. Optimization of 2 and 3 variable functions, Lagrange Multipliers, applications and techniques of multiple integration, Green's Theorem, Stokes Theorem, and line and surface integrals. Prerequisite: MATH& 163 or its equivalent.

**MECHATRONICS****Adv AC/DC Electronics**

7280 ERA 117A (4) 10-10:50am Daily TAC 331 Peterson D

Advanced theorems, analysis and troubleshooting of Direct and Alternating Current. Devices including inductors and variable resistors and capacitors will be studied. Circuit simplification theorems will be studied and demonstrated. Prerequisite: MEC 116. Lab fee \$67.

**Solid State Devices**

☯ 7281 ERA 170A4 (4) 9-9:50am Daily TAC 331 Steidel

Applications of circuits using solid state electronic devices will be studied. Course content will include diodes, transistors, solid state relays, operational amplifiers and their respective applications in sensory and device control circuits. Prerequisite: ERA 115. Lab fee \$25.

**Communication Systems**

7282 ERA 235A (3) 9-9:50am MTWTh TAC 332 Peterson D

Survey of communication systems used in electronics. Wired systems will include Serial, Parallel, Ethernet, fiber optic, industrial communication protocols and others. Wireless systems will include RF, IR, Bluetooth and wi-fi including basic applications in robotics. Lab fee \$50.25.

**Robotics Capstone**

7283 ERA 276A (3) 10-10:50am MTWTh TAC 332 Steidel

Class will cover project management through research and product development. Students will be required to supply project proposals, plans, budgets, structured updates and technical reports. Effective time management, communication and team dynamics will be emphasized. Prerequisite: instructor permission.

**Electrohydraulics**

7400 MEC 154A (4) 2-3:30pm MTThF TAC 333 Lipp

Continuation of MEC 153. Fluid power transfer and electrohydraulic fluid systems. Components studied will include pipes and hoses, pressure regulators, pressure and flow sensors, and electrical control systems. Heavy emphasis on troubleshooting. Prerequisite: MEC 153. Lab fee \$67.

**Cooperative Work Experience**

7401 MEC 190A (12) ARR ARR ARR Steidel

See description under Cooperative Work Experience heading.

**Allen Bradley PLCs**

7402 MEC 260A (5) 12-12:50pm MWF TAC 333 Peterson D  
1-1:50pm TTh TAC 333 Peterson D

Study of Allen Bradley programmable logic controllers. Input and output modules will communicate with peripheral devices such as sensors, motors, lights and relays. Heavy emphasis on ladder logic, safety, troubleshooting and efficiency. Lab fee \$83.75.

**Industrial Robotics**

7403 MEC 270A (5) 11-11:50am MWF TAC 333 Peterson D  
11am-12:50pm TTh TAC 333 Peterson D

Survey of robotics used in industry. Heavy emphasis on safe handling and work cell safety. Programming features include teaching points, program structure and device interfaces. Course includes Fanuc Corporation Certified Education Robot Training (CERT) Certification. Lab fee \$83.75.

**MEDIA STUDIES****Sports Announcing for Baseball**

☯ 7344 M ST 128A4 (1) 2-2:50pm W WAH 140 Fisher

Learn and apply the basic skills and knowledge required of today's baseball announcers. This course will emphasize practical tips, ideas and theories that will help you on your way to becoming a quality baseball announcer.

**Introduction to Broadcast News and Production**

☯ 7345 M ST 220A4 (4) 12-12:50pm Daily WAH 115/140 Fisher

Learn basic media news writing, produce and broadcast news and feature stories on both radio and television. Some media production techniques will be covered during the quarter.

**Television Production**

☯ 7346 M ST 262A4 (5) 1-2:50pm TTh WAH 115 Fisher  
1-1:50pm MWF WAH 115 Fisher

Students will write, direct, produce and edit video packages and participate as crew members in producing classmate's video projects. Lab fee \$17.94.

**Radio Broadcasting Internship**

☯ 7347 M ST 271A4 (1) ARR ARR WAH 140 Fisher  
☯ 7348 M ST 272A4 (2) ARR ARR WAH 140 Fisher  
☯ 7349 M ST 273A4 (3) ARR ARR WAH 140 Fisher  
☯ 7350 M ST 274A4 (4) ARR ARR WAH 140 Fisher

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

**TV Broadcasting Internship**

☯ 7351 M ST 281A4 (1) 1-2:50pm T WAH 115 Fisher

Designed for students who wish to produce independent video projects outside of the classroom environment. Permission of instructor required. Prerequisite: MST 260, 261, 262.

**MEDICAL ASSISTANT****Medical Math**

7338 MA 130A (5) 10-10:50am Daily WSC 107 Steidel

A mathematics course that focuses on solving applications using percent, proportion, and unit conversion as well as descriptive data interpretation. Satisfies the math requirement for Medical Assistant AAS. Prerequisite: MATH 096 or equivalent.



**MA Electrocardiography**

7341 MA 208A (2) ARR ARR ARR Layton

Electrocardiography (ECG) for the medical assistant student; including anatomy of the heart and the cardiac cycle, ECG applications and methods for testing in ambulatory care. Lab fee \$15.

**MA Clinical Procedure II**

7342 MA 243A3 (6) 10am-12:50pm Daily WAH 146 Boerner

Surgical setup for clinical/office procedures explored in detail; review of the role of diagnostic imaging, rehabilitation, and nutrition in the interdisciplinary approach of patient care. Prerequisite: MA 242, MA 246 with a 2.5 GPA or higher. Lab fee \$40. **Class meets 4/1 - 5/6.**

**MA Externship Seminar**

7343 MA 244AP1 (1) Online Boerner

This class allows the medical assistant extern to explore objectives and challenges in bridging their classroom/lab experiences to the experiences they are encountering in their externships. Prerequisite: MA 242, MA 246 with a 2.5 GPA or higher.

**MA Clinical Externship**

8236 MA 245A (6) ARR ARR ARR Boerner

One hundred eighty unpaid hours of externship in an ambulatory health care setting that allows the medical assistant student to bridge their classroom education and lab training to the real world medical setting. Prerequisite: MA 242, MA 246 with a 2.5 GPA or higher. Lab fee \$17.35.

**MUSIC****Fundamentals of Music (H)**

7409 MUSC 100A (5) 9-9:50am Daily WAH 125 Odonel

Introduction to the elements of music theory, including scales, intervals, keys, triads, elementary ear training, notation, meter and rhythm.

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

7457 MUSC&amp;105A (5) 8-8:50am Daily WAH 103 Odonel

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

**Musical Theatre (H)**

8125 MUSC 118A4 (5) 10-10:50am Daily WAH 113 Kreilkamp

The study of musical theatre, its major works, its significance in theatre history, and role in American culture with an emphasis on production elements and the play in performance.

**Jazz Ensemble I-VI**

7410 MUSC 124N (2)	5-6:30pm	TTh	WAH 107	Blaser
7411 MUSC 125N (2)	5-6:30pm	TTh	WAH 107	Blaser
7412 MUSC 126N (2)	5-6:30pm	TTh	WAH 107	Blaser
7413 MUSC 127N (2)	5-6:30pm	TTh	WAH 107	Blaser
7414 MUSC 128N (2)	5-6:30pm	TTh	WAH 107	Blaser
7415 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**

7416 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.

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

7417 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 III (H)**

7459 MUSC&amp;143A4 (5) 10-10:50am Daily WAH 125 May

A study of musical concepts, such as dominant substitutions, voice leading chords, secondary dominants, motives, and phrase structures. Prerequisite: MUSC& 142.

**Concert Choir I-VI**

7418 MUSC 144N (2)	6:30-9pm	TTh	WAH 103	Jardine-Tobin
7419 MUSC 145N (2)	6:30-9pm	TTh	WAH 103	Jardine-Tobin
7420 MUSC 146N (2)	6:30-9pm	TTh	WAH 103	Jardine-Tobin
7421 MUSC 147N (2)	6:30-9pm	TTh	WAH 103	Jardine-Tobin
7422 MUSC 148N (2)	6:30-9pm	TTh	WAH 103	Jardine-Tobin
7423 MUSC 149N (2)	6:30-9pm	TTh	WAH 103	Jardine-Tobin

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

**Functional Piano III**

7425 MUSC 153A (1) 4-4:50pm T WAH 125 Tillinghast

Functional piano study/skill for music majors. A practical course to accompany the music theory courses. Corequisite: simultaneous enrollment in music theory class; prerequisite: MUSC 152 or permission of instructor (audition required).

**APPLIED MUSIC CLASSES:**

These applied music classes 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.

**Applied Flute**

7424 MUSC 150A (1) ARR ARR ARR Odonel

**Applied French Horn**

7426 MUSC 154A (1) ARR ARR ARR Blaser

**Applied Trumpet**

7427 MUSC 155A (1) ARR ARR ARR Blaser

**Applied Tuba**

7429 MUSC 157A (1) ARR ARR ARR Blaser

**Applied Euphonium**

7430 MUSC 158A (1) ARR ARR ARR Blaser

**Applied Percussion**

7431 MUSC 159A (1) ARR ARR ARR Blaser

**Applied Piano**

7432 MUSC 160A4 (1) ARR ARR ARR May

**Applied Violin**

7433 MUSC 161A (1) ARR ARR ARR Scarborough

**Applied Viola**

7434 MUSC 162A (1) ARR ARR ARR Scarborough

**Applied Cello**

7435 MUSC 163A (1) ARR ARR ARR Staff

**Applied Double Bass**

7436 MUSC 164A (1) ARR ARR ARR Staff

**Applied Guitar**

7437 MUSC 165A (1) ARR ARR ARR Tillinghast

**Applied Saxophone**

7438 MUSC 166A (1) ARR ARR ARR Blaser

**Applied Voice**

7439 MUSC 167A (1) ARR ARR ARR Colgan

**Applied Composition**

7440 MUSC 168A4 (1) ARR ARR ARR May

**Applied Clarinet**

7441 MUSC 169A (1) ARR ARR ARR Blaser

**Applied Oboe**

7442 MUSC 170A (1) ARR ARR ARR Blaser

**Applied Bassoon**

7443 MUSC 171A (1) ARR ARR ARR Staff

**Applied Harp**

7444 MUSC 172A (1) ARR ARR ARR Scott Kippy

**Community Band I-VI**

7445 MUSC 175N (2)	7-9pm	T	WAH 150	Blaser
	ARR	T	WAH 150	Blaser
7446 MUSC 176N (2)	7-9pm	T	WAH 150	Blaser
	ARR	T	WAH 150	Blaser
7447 MUSC 177N (2)	7-9pm	T	WAH 150	Blaser
	ARR	T	WAH 150	Blaser
7448 MUSC 178N (2)	7-9pm	T	WAH 150	Blaser
	ARR	T	WAH 150	Blaser
7449 MUSC 179N (2)	7-9pm	T	WAH 150	Blaser
	ARR	T	WAH 150	Blaser
7450 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**

7451 MUSC 185N (2)	7-9pm	M	WAH 150	Friedlander
	ARR	M	ARR	Friedlander
7452 MUSC 186N (2)	7-9pm	M	WAH 150	Friedlander
	ARR	M	ARR	Friedlander
7453 MUSC 187N (2)	7-9pm	M	WAH 150	Friedlander
	ARR	M	ARR	Friedlander
7454 MUSC 188N (2)	7-9pm	M	WAH 150	Friedlander
	ARR	M	ARR	Friedlander
7455 MUSC 189N (2)	7-9pm	M	WAH 150	Friedlander
	ARR	M	ARR	Friedlander
7456 MUSC 190N (2)	7-9pm	M	WAH 150	Friedlander
	ARR	M	ARR	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 VI (H)**

7460 MUSC&243A4 (5) 2-2:50pm Daily WAH 125 May

A study of musical concepts, focused on techniques and methods of the 20th and 21st century. Prerequisite: MUSC& 242.

**NURSING**

**Common Alterations II**

7462 NURS 103A4 (12)	ARR	Daily	WSC 202	Team Taught
	ARR	Daily	WSC 202	Capen
7463 NURS 103B4 (12)	ARR	Daily	WSC 202	Team Taught
	ARR	Daily	WSC 202	Sullivan

Progressive competencies reflecting program themes are applied to: surgical, neurological, musculoskeletal, renal, and gastrointestinal systems. On-campus theory, skills labs and off-campus acute and long-term care clinical experiences are provided. Prerequisite: NURS 101 and NURS 102 or equivalents. Lab fee \$33.82.

**Complex Management**

7464 NURS 203A4 (8)	ARR	Daily	WSC 202	Team Taught
	ARR	Daily	WSC 202	Capen
7465 NURS 203B4 (8)	ARR	Daily	WSC 202	Team Taught
	ARR	Daily	WSC 202	Schuchmann

Progressive competencies reflecting program themes are applied to the care of clients with complex alterations in health. Community-based and acute-care inpatient clinical opportunities are provided at regional facilities. Prerequisite: NURS 201, NURS 202 and NURS 220 or equivalents; corequisite: NURS 222. Lab fee \$42.95.

**Transition to Practice**

7466 NURS 222A4 (4)	ARR	Daily	WSC 202	Team Taught
	ARR	Daily	WSC 202	Schuchmann
7467 NURS 222B4 (4)	ARR	Daily	WSC 202	Team Taught
	ARR	Daily	WSC 202	Sullivan

Preceptor-guided experiences in a variety of community health care organizations are provided. Community-based and personal professional development projects are assigned. Prerequisite: NURS 201, NURS 202, NURS 220; corequisite: NURS 203; or equivalents. Lab fee \$46.95.

**NURSING ASSISTANT**

**Nursing Assistant Certification**

7299 HLSV 131A4 (9)	8am-12pm	MTWTh	TEC 115	Speer
	Clinicals 5:45am-12pm	ARR	SCC	Speer
7300 HLSV 131B4 (9)	1-5pm	MTWTh	TEC 115	Speer
	Clinicals 5:45am-12pm	ARR	SCC	Speer

Awareness of the role of the nursing assistant in nursing care and skill development. Topics: maintain a safe environment, provide restorative care, communication, and practice basic concepts of care. Background check is required for clinical. Lab fee \$192.58.

**NUTRITION**

**Nutrition (NS)**

7468 NUTR& 101A4 (5)	10-10:50am	Daily	WSC 109	Ibrahim
7469 NUTR& 101BP1 (5)	Online			Ibrahim

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)*

☯ 7471 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)*

☯ 7502 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)*

☯ 7501 PHIL 103AP1 (5) Online Diamant  
Focus on choices made in concrete circumstances. Study traditional ethical theories and present-day moral dilemmas.

## PHLEBOTOMY

### *Advanced Phlebotomy*

☯ 7503 PHLE 132A3 (8) 11:30am-2:20pmMTWTh WAH 146 Boerner  
Expansion of Phlebotomy skills introduced in PHLE 131. This course will offer lecture and lab sessions with emphasis on hands on practice and dexterity for successful and safe venipuncture. Prerequisite: PHLE 131 with a 2.5 GPA or higher. Lab fee \$53.16.

## PHYSICAL EDUCATION

### *Soccer Fundamentals*

7473 P E 108A (1) ARR ARR ARR Gundersen  
This course will cover the basic skills and techniques of soccer. Includes team defense and team offense. Lab fee \$3.10.

### *Physical Fitness (HF)*

☐ 7475 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*

7476 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)*

☯ 7477 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)*

☯ 8103 P E 121A4 (1) 12-12:50pm TTh MSG 200 Johnson C  
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)*

☯ 7478 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)*

7479 P E 125A (1) 10-10:50am TTh MSG 130 Bower  
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.

### *Baseball Application I*

7480 P E 131A (3) ARR ARR MSG 103 Atkinson  
Learn the techniques and strategies in a practice or game situation with an emphasis on fundamentals, conditioning, team concept and sportsmanship. Lab fee \$18.75.

### *Cardio Conditioning (HF)*

☯ 7482 P E 142A4 (1) 10-10:50am TTh MSG 103 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)*

☯ 7483 P E 150A4 (1) 9-9:50am TTh MSG 200 Goss  
☯ 7484 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.

### *Pilates/Core (HF)*

☯ 7485 P E 152A4 (1) 11-11:50am MW MSG 200 May  
☯ 7486 P E 152B4 (1) 4-4:50pm MW MSG 200 May  
☐ 7487 P E 152R (1) 4:30-5:30pm Th MOR 101 Johnson C  
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)*

7488 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)*

☯ 7489 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*

☯ 7490 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*

☯ 7491 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 Applications I*

7492 P E 165A (3) ARR ARR MSG 103 Slorey  
Learn how to apply the fundamentals of softball in game like situations. Lab fee \$3.10.

**Lifetime Fitness (HF)**

☯ 7493 P E 168A3 (2) 10-10:50am F WAH 105 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.

**Adv Soccer Fundamentals**

7495 P E 208A (1) ARR ARR ARR Gundersen

This course will review basic skills and techniques of soccer. Included in the course will be advanced skills and techniques along with game strategies, team offense and team defense. Prerequisite: PE 108 or instructor permission. Lab fee \$3.10.

**Advanced Physical Fitness (HF)**

☐ 7496 P E 210R (1) 9:30-10:30am TTh MOR 101 Jones

Designed to continue the individual's personal health-related physical fitness - cardiovascular endurance, muscular strength, muscular endurance, body composition and flexibility. Students will be encouraged to work at their own level of fitness. Prerequisite: PE 110 or instructor permission. Lab fee \$3.10.

**Advanced Volleyball**

7497 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)**

☯ 7498 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.

**Baseball Application II**

7499 P E 231A (3) ARR ARR MSG 103 Atkinson

Learn advanced techniques and strategies in a practice or game situation with an advanced emphasis on fundamentals, conditioning, team concept and sportsmanship. Prerequisite: PE 131 or instructor permission. Lab fee \$18.75.

**Softball Applications II**

7500 P E 265A (3) ARR ARR MSG 103 Storey

Learn how to apply the advanced techniques of softball in game-like situations. Prerequisite: PE 165 or instructor permission. Lab fee \$3.10.

**Introduction to Outdoor**

☯ 8129 P E 270A4 (2) 1-2:50pm MW MSG 115 Johnson C

This course will provide an introduction to the field of Outdoor Recreation. Definitions, history, trends, and issues of the profession will be covered. There will be one field trip experience to include hiking and kayaking. 6/1 Outdoor recreation adventure day. Lab fee \$20.

**PHYSICS****Engineering Physics III (NS)**

7505 PHYS& 223A (5) 8-8:50am MTWTh WSC 108 Threapleton  
1-2:50pm M WSC 106 Threapleton

Optics modern physics, electricity and magnetism. Includes geometrical and physical optics, Maxwell's equations, AC/DC circuits and special relativity. Prerequisite: PHYS& 222 and MATH& 153. Lab fee \$19.22.

**Research in Physics**

7504 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)**

7508 POLS& 202A (5) 9-9:50am Daily WSC 204 Peterson J

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)**

☯ 7509 POLS& 204AP1 (5) Online McCulloch

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)**

☯ 7515 PSYC& 100A4 (5) 8-8:50am Daily WSC 107 Starroff

☯ 7516 PSYC& 100B4 (5) 9-9:50am Daily WSC 215 Starroff

☯ 7517 PSYC& 100CP1 (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)**

☯ 7518 PSYC& 200A4 (5) 10-10:50am Daily WSC 211 MacNamara

☯ 7519 PSYC& 200BP1 (5) Online MacNamara

☯ 7520 PSYC& 200CP1 (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.

**Social Psychology**

☯ 8123 PSYC 250A4 (5) 12-2:20pm TTh WSC 107 MacNamara

The scientific study of how a person's thoughts, emotions, and behaviors are influenced by other people. Includes an exploration of: propaganda, persuasion, social cognition, human aggression, prejudice, love, and interpersonal sensitivity. Prerequisite: PSYC& 100 or instructor permission.

**READING****Independent Study**

☯ 7521 READ 096N4 (1-5) 5-7:20pm MW WSC 111 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 student's needs. Permission of instructor only.

**Specific Reading Skill Development**

☯ 7522 READ 097N4 (1-3) 5-7:20pm MW WSC 111 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

☞	7523	READ	099A4	(1-5)	11-11:50am	Daily	MSG 106	Shriver
☞	7524	READ	099N4	(1-5)	5-7:20pm	MW	WSC 111	Shriver
☐☞	7525	READ	099R4	(1-5)	12:30-2:50pm	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

☞	7526	READ	100A4	(3)	11-11:50am	Daily	MSG 106	Shriver
☞	7527	READ	100N4	(3)	5-7:20pm	MW	WSC 111	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

☞	7528	READ	110N4	(3)	5-7:20pm	ARR	ARR	Shriver
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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.

## SOCIOLOGY

### Intro to Sociology (SS)

☞	7543	SOC&	101AT4	(5)	8-8:50am	Daily	WSC 211	Coffman
☞	7544	SOC&	101B4	(5)	9-9:50am	Daily	WSC 208	Coffman
☞	7545	SOC&	101C4	(5)	11-11:50am	Daily	WSC 110	Coffman
☐☞	7547	SOC&	101RT4	(5)	8-8:50am	Daily	MOR 110	Coffman
☞	7546	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)

☞	7548	SOC&	201A3	(5)	9-9:50am	MTW	WSC 210	Mayfield
					+2 hours/week	TBA		

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.

### Cultural & Ethnic Pluralism (D)(SS)

☞	7542	SOC	225AP1	(5)	Online			Staff
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Examine ethnicity, ethnic identity, and cultural characteristics of ethnic and social groups in North America and around the world. Understand the relationship between social organization and forms of social, economic, and political domination and subordination.

## SPANISH

### Spanish I (H)

☞	7550	SPAN&	121A4	(5)	12-12:50pm	Daily	WSC 210	Gorecki
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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)

☞	7551	SPAN&	122A4	(5)	1-1:50pm	Daily	WSC 210	Martinez
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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 III (H)

☞	7552	SPAN&	123A4	(5)	8-8:50am	Daily	WSC 210	Gorecki
☞	7553	SPAN&	123B4	(5)	10-10:50am	Daily	WSC 210	Gorecki
☞	7554	SPAN&	123CP1	(5)	Online			Martinez

Third 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& 122 or instructor permission.

### Spanish VI (H)

☞	7555	SPAN&	223A4	(5)	11-11:50am	Daily	WSC 109	Gorecki
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Discuss Hispanic cultures in Spanish, develop oral and written skills, review and expand essential points of grammar, and build vocabulary. Prerequisite: SPAN& 222 or instructor permission.

## STUDENT DEVELOPMENT

### Study Skills

☞	7532	SDEV	099N4	(1-5)	5-7:20pm	MW	WSC 111	Shriver
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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

☞	8223	SDEV	105D3	(2)	1-1:50pm	MTWTh	WSC 208	Rauscher
☞	8224	SDEV	105E3	(2)	1-1:50pm	MTWTh	WSC 208	Rauscher
☞	7533	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. **Section D3 meets 5/6-6/14; section E3 meets 4/8-5/4.**

### Student Success

☞	7536	SDEV	150A3	(3)	12-12:50pm	Daily	WSC 111	Burr
☞	8225	SDEV	150B3	(3)	12-12:50pm	Daily	WSC 111	Burr
☞	8226	SDEV	150C3	(3)	1-1:50pm	Daily	WSC 111	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 A3 meets 4/1-5/3; section B3 meets 5/6-6/14; section C3 meets 4/1-5/3.**

## WELDING

### Welding for Mechanics

☞	7557	WELD	151A3	(5)	3-4:50pm	MTW	TEC 105	Dunn
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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. **Class meets 5/6 - 6/10.**

**Oxyfuel & GTAW Welding**

7558 WELD 159A (12) 11am-2:50pm Daily TEC 103 Peters

Theory and practice of oxyacetylene welding, brazing, cutting and gas tungsten arc welding. Safety, handling and use of compressed gases, materials, types of weld joints, and procedures. Prerequisite: 2.0 or higher in WELD 164 or instructor permission. Lab fee \$138.75.

**Gas Metal Arc Welding**

7561 WELD 182N (5) 5-9pm TTh TEC 103 Staff

Safety, setup, and welding in all positions using gas metal arc welding equipment. Lab fee \$73.78.

**Advanced Fabrication**

7562 WELD 269A (11) 8-11:50am Daily TEC 103 Driscoll

Blueprint interpretation, layout tools and procedures, oxy-fuel and plasma cutting, fitting, and welding fabrication projects. Prerequisite: WELD 267 with a 2.0 or higher or instructor permission. 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/>

## Governmental Accounting

☎ 7051 ACCT 401N3 (5) 6-7:50pm Th WSC 110 Broderson  
+3 hours/week TBA

An accounting course as it applies to government and not-for-profit entities. The topics include fund management, budget preparation, presentation of both fund and government-wide financial statements, and not-for-profit entity financial performance. Prerequisite: ACCT& 202 or permission.

## Metalwork & Fabrication

☎ 7206 DET 345A3 (5) 10am-1:30pm MTWTh TEC 159 Lucas

Apply layout, blueprint, weld symbol interpretation, dimension conversations, welding, machine set-ups and fabrication skills to safely complete metal fabrication projects correctly. Prerequisite: enrollment in BAS-DT or instructor permission. Lab fee \$100. **Class meets 5/6 - 6/10.**

## Hybrid Drives Electric

☎ 7207 DET 355A3 (5) 10am-1:30pm MTWTh TEC 133 Conrad

Theory and application of gasoline/electric hybrid, diesel/electric hybrid, and diesel/hydraulic hybrid systems as well as commonly used electric drive systems in on and off highway equipment. System maintenance and cost benefit analysis will be covered. Prerequisite: enrollment in BAS-DT or instructor permission. Lab fee \$100. **Class meets 4/1 - 5/2.**

## Internship

8158 DET 365A (5) ARR ARR ARR Lucas

Provides students a venue to demonstrate the application of knowledge gained in the BAS-DT program, in the workplace. The internship will address BAS-DT program outcomes as agreed to by the student, internship provider and instructor. Prerequisite: enrollment in BAS-DT or instructor permission. Lab fee \$66.19.

## Electrical III

☎ 7208 DET 415A3 (5) 10am-1:30pm MTWTh TEC 159 Lipp

Course content will focus on the theory and application of advanced electrical circuits, schematic reading, and proper troubleshooting techniques. Prerequisite: enrollment in BAS-DT or instructor permission. Lab fee \$75. **Class meets 4/1 - 5/2.**

## Power Generation Systems

8159 DET 465A (5) 10am-1:30pm MTWTh TEC 159 Lipp

Students will operate, maintain, test, and troubleshoot generators and related energized and de-energized components. Emphasizes safe working practices when working around on-site power generation systems. Prerequisite: enrollment in BAS-DT or by permission. Lab fee \$75. **Class meets 4/1 - 5/2.**

## Managerial Economics (SS)

☎ 7223 ECON 305N3 (5) 5-6:50pm T WSC 206 Burlingame  
+3 hours/week TBA

This course surveys economic condition and the application of tasks normally associated with a corporate economist. Topics of study include free market economics, supply and demand, regulation, inflation, price elasticity, and comparative advantage. Prerequisite: lower division Social Science course.

## Arts Integration Through STEAM

☎ 8232 EDUC 335N3 (5) 5-6:50pm M WSC 101 Grande  
☎ 8233 EDUC 335NN3(5) 5-6:50pm W WSC 101 Staff

National standards (NGSS) support arts integration. Research shows that students remember science learning experiences that contain multi-sensory, hands-on activities. The arts are an avenue to promote that learning opportunity. The arts are also useful for helping students make connections between science content or concepts through thought and expression. Most states and science foundations are encouraging the addition of the Arts) in STEM practices. (STEAM) When students use artistic methods to show their understanding of a concept, there is a wider range of student responses, creativity and participation. In this course, students will learn how to use best science instructional practices while developing a STEAM centered project.

## Teaching Language Arts & Development

☎ 8227 EDUC 345N3 (5) 5-6:50pm T WSC 101 Grande  
+3 hours/week TBA

Examine the methods for teaching writing, reading, listening, and speaking strategies and skills, including vocabulary, grammar, usage, and language development. Topics will include curriculum, methods, materials, and research. Prerequisite: admittance to BAS-TE or administrator approval.

## Teaching Reading

☎ 8228 EDUC 355N3 (3) 5-6:20pm Th WSC 101 Douay  
+1.5 hours/week TBA

Explores reading, comprehension, and literacy as it pertains to beginning readers. Emphasis placed on developing strategy lessons that encompass the major components of reading to use with students. Prerequisite: admittance to BAS-TE or administrator permission.

## Support: Child & Family

☎ 8229 EDUC 370N3 (3) 6:30-7:50pm Th WSC 211 Smith  
+1.5 hours/week TBA

Study techniques for communicating with families and professionals about characteristics and needs of individuals with differing abilities. Strategies for collaborating with families, recognizing and respecting family, cultural, and societal diversity. Identify local resources. Prerequisite: admittance to BAS-TE or administrator approval.

## Practicum 3

☎ 8231 EDUC 483N3 (2) 8-8:50pm Th WSC 108 Smith  
+3 hours/week TBA

This course allows students to apply the content and strategies learned in Teaching Language Arts Development as they participate in 33 hours of classroom activities in the elementary classroom. Corequisite: EDUC 385.

## Student Teaching Special Education

8234 EDUC 490N (10) ARR ARR ARR Grande

Supervised instructional experience to develop, implement, practice, and evaluate theory and methods learned. Students will meet one on one or in small groups with supervising faculty. Prerequisite: EDUC 497 with a 2.0 or higher.

# BACHELOR OF APPLIED SCIENCE CLASSES

## Student Teaching Elem 2

8237 EDUC 498N (10) ARR ARR ARR Grande  
Supervised instructional experience to develop, implement, practice, and evaluate theory and methods learned. Students will meet one on one or in small groups with supervising faculty. Prerequisite: EDUC 497 with a 2.0 or higher

## Ethics (H)

7317 HUM 315A3 (5) 3-3:50pm TTh WAH 207 Copeland  
+3 hours/week TBA

7316 HUM 315B3 (5) 8-9:50am TTh TEC 159 King  
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: five credits of lower division Humanities.

## Software Engineering II

7327 IT 340A3 (5) 4-5:50pm TTh WAH 211 Keane

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 admittance or instructor permission. Lab fee \$50.

## Information Security for Developers

7328 IT 430A3 (5) 3-4:50pm MW WAH 211 Murphy

Students will examine information system security. Students will develop protocols and controls to harden information systems, and learn how vulnerabilities in information systems can be exploited using common, easy to access tools and techniques. Prerequisite: BAS-IT: AD admittance or instructor permission. Lab fee \$50.

## BAS-IT: AD Capstone

7329 IT 460N3 (5) 5-5:50pm MW WAH 211 Murphy

Students will deliver a working software project, and all associated documentation to demonstrate mastery of the software development life cycle, and of modern software development methodologies. Prerequisite: BAS-IT: AD admittance or instructor permission. Lab fee \$50.

## Teaching Math (M)

8230 MATH 315N3 (5) 7-8:50pm T WSC 108 Abbarno  
+3 hours/week TBA

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.

## Legal Issues

8111 MGMT 325A3 (5) 11-11:50am Daily WSC 101 Staff

7405 MGMT 325N3 (5) 6-7:50pm Th WSC 107 Staff  
+3 hours/week TBA

A core course concerning the impact of laws, regulations and legal responsibilities on management behavior with a focus on the application of this learning to real life situations for organizations both large and small.

## Management of Human Resources

8110 MGMT 420A3 (5) 10-10:50am Daily WSC 101 Crawford

7406 MGMT 420N3 (5) 7-8:50pm T WSC 107 Crawford  
+3 hours/week TBA

Core course in the responsibilities and role of human resource management in today's workplace. Material will concentrate on both regulatory and strategic responsibilities of HR. Topics include recruitment, interviewing, compensation and current HR issues.

## Operations Management

7407 MGMT 435N3 (5) 7-8:50pm T WSC 215 Staff  
+3 hours/week TBA

Introduction to the key ideas and techniques used to plan, analyze, measure and improve an organization's production of goods and services. Topics explored include process-system modeling, product design/quality, inputs, processes, supply-chains, inventory, and people management. Prerequisite: enrollment in BAS-AM or instructor permission.

## Management Internship

7408 MGMT 470AP1 (5) Online Spanski-Dreffin

BAS-AM program outcomes in an internship with specific outcomes as agreed to by the student, internship provider and instructor. Classes will focus on sharing progress, issues or barriers from the internships. Prerequisite: completion of BAS-AM foundation courses and 30 additional BAS-AM core credits with a 2.0 minimum GPA. Lab fee \$6.19.

## Leadership & Organizational Behavior (SS)

8109 PSYC 320A3 (5) 9-9:50am Daily WSC 206 Staff

8108 PSYC 320N3 (5) 5-6:50pm T WSC 110MacNamara  
+3 hours/week TBA

Relate theory and research to organizational problems by reviewing advanced concepts in motivation, perception, leadership, decision-making, communication and influence, group behavior, diversity, conflict and cooperation, politics, corporate culture, organizational structure, and environmental influences.

## MORTON SPECIAL INTEREST

### *Pilates/Core*

☐ 7067 ASI 011R (1) 4:30-5:30pm Th MOR 101 Johnson C

An exercise class designed to teach breathing with movement, body mechanics, balance, coordination, spatial awareness, strength and flexibility. Class fee \$25.

### *Middle Eastern Dance*

☐ 7068 ASI 014S (1) 6:30-7:30pm T MOR Klein

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*

☐ 7069 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 \$35.

### *Health/Wellness Topics*

☐ 7070 ASI 038R3 (1-2) 11-11:50am TWTh MOR 101 Jones

An exploration of current personal health issues and a presentation of contemporary approaches to obtaining and maintaining a high level of wellness. Class fee \$49.

### *Healthy Weight Control*

☐ 8239 ASI 038R4 (2) 3-4:20pm Th MOR 101 Johnson C  
+1 hour/week TBA

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. Class fee \$45.

### *Art Exploration*

☐ 8143 ASI 050R4 (2) 1-2:30pm MW MOR 101 Cantin

Discover and explore works of art thorough slide lectures, seminars, and creative hands-on art activities, including mask making and festival projects. This workshop is designed for adults of all artistic abilities and experience. Class fee \$51.

### *Basic Acting Technique*

☐ 8137 ASI 055R (2) 11am-12:50pm Sa MOR Hartman

This acting class is for students wanting to bring their level of technique to a higher skill set. Using Uta Hagen's "Respect for Acting," this in-depth study will include exercises and scene studies with Chekov's rich dramas. This class is useful for all levels, open minds are encouraged, and hard work is valued. Class meets at the Tiller Art Center in Morton. Class fee \$45.

### *Exploring Short Fiction*

☐ 8139 ASI 065R3 (3) 9-10:50am MW MOR 108 Barnes

An exploration (through reading and writing) of various literary genres to include poetry, creative nonfiction, short fiction and drama in an interactive workshop environment. Class fee \$45.

## MORTON BUSINESS MANAGEMENT

### *Microsoft PowerPoint*

☐ 7541 SMGT 298R4 (3) 11am-1pm W MOR 112 Cantin

Courseware incorporates a step-by-step, project-based approach, to develop competency in Microsoft PowerPoint learning to create, edit, and format professional presentations using tables, graphics, sounds, animation, SmartArt and other common features. Class fee \$70.13.

### *Microsoft Excel-Brief*

☐ 7537 SMGT 120R4 (2) 11am-1pm W MOR 112 Cantin

Courseware incorporates an accelerated, step-by-step, project based approach, students develop an introductory-level competency in Excel learning to create, edit, format, calculate and add special features to spreadsheets. Prerequisite: some computer experience. Class fee \$49.13.

### *Microsoft Word*

☐ 7540 SMGT 197R4 (3) 11am-1pm W MOR 112 Cantin

Courseware incorporates a step-by-step, project-based approach, to develop competency in Microsoft Word learning to create, edit, format, and add graphics to documents. In addition to effectively plan, research, write and publish documents. Prerequisite: general understanding of personal computers and Windows. Class fee \$70.13.