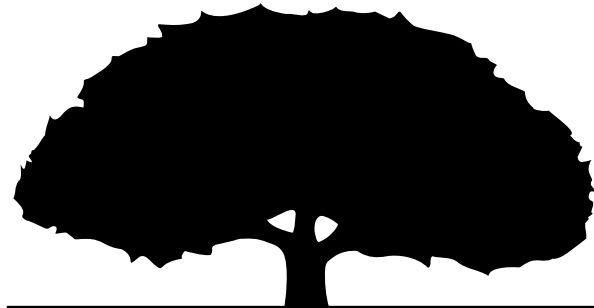


# *Spring 2018*

## *Advising Schedule*



CENTRALIA  
COLLEGE

Spring quarter classes begin April 2.

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

## SCHEDULE KEY

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

### Class section codes:

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

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

## ADULT BASIC EDUCATION

### Adult Basic Education Orientation

Required orientation 10-10:50am MTWTh Kirk Library

All ABE students need to attend an orientation.

### English as a Second Language

Required orientation 6-6:50pm TW Kirk Library

For daytime appointments, information is available at the Testing Center Desk by calling 360-623-8920.

ABE orientation and registration appointments can also be made at Centralia College East in Morton by calling 360-623-8925.

### Adult High School Diploma (HS21+)

Required orientation 12-12:50pm MTWTh Kirk Library

All students take reading, writing, and math classes. They also attend a study skills lab, where they finish the classes that are not on their transcripts.

### GED 2014

Required orientation 12-12:50pm Daily Kirk Library

All GED students take reading, writing, and math classes. They also attend a study skills lab, where they study social studies and science.

### Work Skills Development

Required orientation 12-12:50pm W Kirk Library

Students with a high school diploma or GED can take work skills development classes to prepare for job training programs or for entering the job market.

### Basic Skills Improvement

Required orientation 5-8:45pm MTWTh Kirk Library

Students with a high school diploma or GED, can brush-up on their reading, writing, and math.

## Reading for Civics

Required orientation ARR ARR Kirk Library  
Citizenship preparation class, students' practice reading, writing, speaking, and listening in English. Students may register any time during the quarter by attending an ESL orientation. Students must also enroll in ESL classes.

## ACCOUNTING

### Basic Computer Accounting

☞ 7051 ACCT 130A3 (3) 8-8:50am Daily WAH 205 Smejkal  
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.

### Financial Reporting

☐☞ 8150 ACCT 200R3 (5) 4:30-5:50pm TTh MOR 101 Germann  
☐☞ 8151 ACCT 200R5 (5) Flexible Germann

This course emphasizes the fundamentals of double-entry accounting and the preparation of financial statements for business entities. Topics include, but are not limited to, accounting for assets, liabilities, equity, revenue and expenses. Prerequisite: Compass minimum score of MATH 096 or evidence score entrance equiv.

### Prin of Accounting II

☐☞ 8126 ACCT& 202R3 (5) 4:30-5:50pm MW MOR 101 Germann  
☐☞ 8145 ACCT& 202R5 (5) Flexible Germann

This course emphasizes accounting for partnerships and corporations. Topics include, but are not limited to, accounting for fixed and intangible assets, payroll, stocks, bonds, the statement of cash flows, and financial statement analysis. Prerequisite: ACCT& 201.

### Prin of Accounting III

☞ 7060 ACCT& 203A3 (5) 12-1:20pm MWF WAH 113 Rabe O  
☞ 7061 ACCT& 203B5 (5) Flexible Rabe O

This course emphasizes accounting for departments and branches, cost accounting in a manufacturing environment cost-volume-profit analysis, budget preparation and analysis, standard costs, segment reporting, differential costs and revenues, and capital budgeting decisions. Prerequisites: ACCT& 201 and 202 or ACCT 200.

### Introduction to Audit

☞ 7054 ACCT 210A3 (5) 1-3:20pm TTh WAH 109 Rabe O  
☞ 7055 ACCT 210B5 (5) Flexible Rabe O

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

### Bookkeeper Cert. Course

☞ 7056 ACCT 285A3 (5) 1:30-2:50pm MWF WAH 115 Rabe O  
☞ 7057 ACCT 285B5 (5) Flexible Rabe O

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.

### Business

☞ 8111 ACCT 292AP1 (2) Online Rabe O

Examines knowledge of cost accounting, economics, finance, information technology and skills needed to apply that knowledge. Fifth in a 5-part series in preparation for the Washington State CPA Exam in cooperation with Becker Professional Education. Prerequisite: instructor permission required.

**Audit**

☞ 8112 ACCT 293AP1 (3) Online Rabe O  
Examines knowledge of auditing procedures, generally accepted auditing standards, and the other standards related to attest engagements, and skills needed to apply that knowledge. Fourth in a 5-part series in preparation for the Washington State CPA Exam in cooperation with Becker Professional Education. Prerequisite: instructor permission required.

**AMERICAN SIGN LANGUAGE****American Sign Language III**

☞ 7082 ASL& 123A4 (5) 12-2:20pm TTh WSC 109Depuye-Phillips  
☞ 8104 ASL& 123B4 (5) 2:30-4:50pm TTh WSC 109Depuye-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)**

☞ 7065 ANTH& 206A4 (5) 9-9:50am Daily WSC 208 Avalos

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

**Bioanthropology w/Lab (NS)**

8207 ANTH& 215A4 (5) 10-10:50am MTWTh TAC 122 Avalos  
1:30-3:20pm F WSC 314 Avalos  
8208 ANTH& 215A4 (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. Lab fee \$12.07.

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

☞ 7063 ANTH 225AP1 (5) Online Medlin

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)**

☞ 7064 ANTH 235A4 (5) 1-3:20pm MW WSC 121 Avalos

Experience the supernatural and religious beliefs of peoples and cultures. Examine different modes of constructing "reality" and "belief" as well as their methods of ritual application in societies worldwide.

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

☞ 7074 ART& 100A3 (5) 11-11:50am Daily WAH 109/116 Solomon

Introduction to the visual arts. Painting, drawing, sculpture and architecture will be examined as art forms and for their role in human history. Students will be introduced to a variety of art media and techniques.

**Drawing I (H)**

☞ 7066 ART 102A4 (5) 1-3:50pm TTh 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**

☞ 7067 ART 103A4 (5) 1-3:50pm TTh 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**

☞ 7068 ART 104A4 (5) 1-3:50pm TTh 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.

**Painting/Color Theory**

☞ 8137 ART 112A3 (5) 1-3:50pm F WAH 108 Diamant  
+6 hrs/wk TBA

A color theory and painting course. Learn the theories and processes of color mixing and contrast while being introduced to painting as an artistic medium of self-expression. Lab fee \$25.

**Introduction to Fibers (H)**

☞ 7070 ART 160A4 (5) 1-3:50pm MW 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)**

☞ 7071 ART 174A3 (5) 12-12:50pm MTW WAH 209 Solomon  
1-2:50pm Th WAH 209 Solomon  
+1 hrs/wk TBA

☐ 7072 ART 174R (5) 11am-12:50pm TTh MOR 112 Cantin

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 \$50.

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

☞ 7073 ART 202A4 (5) 10-10:50am 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**

☞ 8138 ART 220A3 (5) 10-10:50am Daily WAH 209 Solomon

An introduction to 3D modeling, sculpting, motion-graphics, materials, 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.

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

☞ 7083 ASTR 127AP1 (5) Online Garcia  
☞ 8245 ASTR 127BP1 (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)

☞ 7090 BIOL& 170A4 (5) 11-11:50am Daily WSC 215 Jewell

Presents the structure, organization, and life functions of the human; cells, tissues, and organ systems; development from embryo to adult; aging and disease; human evolution and ecology.

### Human Biology Lab

☞ 7084 BIOL 172A4 (1) 2-3:50pm W WSC 314 Jewell

Investigate the structure and function of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, immune, respiratory, digestive, urinary, and reproductive systems. Prerequisite: BIOL& 170. Lab fee \$18.46.

### Majors Organismal Physiology (NS)

☞ 7091 BIOL& 223A4 (5) 11-11:50am MTWTh WSC 111 Carlson L  
2-3:50pm W WSC 303 Norton

☞ 7092 BIOL& 223B4 (5) 11-11:50am MTWTh WSC 111 Carlson L  
4-5:50pm W WSC 303 Norton

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 II (NS)

☞ 7093 BIOL& 242N3 (5) 6-6:50pm W WSC 215 Norton  
6-7:50pm M WSC 314 Norton  
+3 hrs/wk TBA

☞ 7094 BIOL& 242NN3 (5) 6-6:50pm W WSC 215 Norton  
4-5:50pm M WSC 314 Norton  
+3 hrs/wk 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)

☞ 7085 BIOL 243A3 (5) 1-1:50pm M WSC 108 Norton  
ARR ARR WSC 314 Norton  
+3 hrs/wk 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.

### Introduction to Marine Biology (NS)

☞ 7086 BIOL 250A4 (5) 12-1:50pm TTh WSC 206 Norton  
2-3:50pm T WSC 314 Norton

Introduction to physical and chemical factors affecting marine organisms: the various marine habitats, the animals and plants which inhabit them, and human exploitation of marine resources. Field trips to local marine habitats. Lab fee \$26.48.

### Microbiology (NS)

☞ 7095 BIOL& 260A4 (5) 9-9:50am TWTh WSC 121 Jewell  
2-3:50pm TTh WSC 301 Jewell

☞ 7096 BIOL& 260B4 (5) 9-9:50am TWTh WSC 121 Jewell  
4-5:50pm TTh WSC 301 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

7087 BIOL 270A (1-12) ARR ARR ARR Norton  
7088 BIOL 270B (1-12) ARR ARR ARR Carlson L  
7089 BIOL 270C (1-12) ARR ARR ARR Jewell

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

## BOTANY

### Plant Identification & Classification (NS)

☞ 8131 BOTA 113A4 (5) 9-9:50am MTWTh WSC 111 Carlson L  
1-3:50pm Th WSC 307 Carlson L

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-Trees in Our Environment (NS)

☞ 7097 BOTA 150A4 (5) 10-10:50am MTWTh WSC 111 Carlson L  
1-3:20pm T WSC 307 Carlson L

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

☞ 7141 BUS& 101AP1 (5) Online Smejkal

Introduction to the world of business. Emphasis will include functions of business, management, types of business ownership, human resources, production, marketing, ethics, and the role of accounting.

### Business Math

☞ 7134 BUS 121AP1 (5) Online Rath

Surveys the commercial application of mathematics designed to assess and analyze business activities and their effect on cost, profitability and overall performance. Prerequisite: MATH 096 or equivalent test score.

### Cooperative Work Experience

8218 BUS 190A (1-12) ARR ARR ARR Smejkal

See description under Cooperative Work Experience heading.

### Business Law

☞ 7142 BUS& 201A3 (5) 8-9:50am MW WSC 109 Harrie

☞ 7143 BUS& 201B5 (5) Flexible Harrie

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.

### Principles of Finance

☞ 7136 BUS 215A3 (5) 12-12:50pm MTThF MSG 106 Rath

☞ 7137 BUS 215B5 (5) Flexible Rath

An introduction to the sources and uses of funds in a business. Focuses on ratio analysis, cost-volume-profit analysis, business valuation, and the relationship between risk and rate of return. Emphasizes the managerial implications of financial risk. Prerequisite: ACCT& 201 or ACCT 200 or instructor permission.

**Marketing**

☞ 7138 BUS 220A3 (5) 9-9:50am MWF WAH 115 McClain

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

**Entrepreneurship**

☞ 7139 BUS 232AP1 (5) Online King

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**

☞ 8113 BUS 250A3 (5) 10-10:50am MWF WSC 206 Crawford

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**

☞ 7098 BTEC 101A4 (3) 9-9:50am Daily WAH 207 Copeland

☞ 7099 BTEC 101B4 (3) 12-12:50pm Daily WAH 207 Copeland

☐ 7100 BTEC 101R (3) 1:30-4pm TTh MOR 112 Cantin

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

**Keyboard Skillbuilding I**

☞ 7102 BTEC 102A4 (3) 9-9:50am Daily WAH 207 Copeland

☞ 7103 BTEC 102B4 (3) 12-12:50pm Daily WAH 207 Copeland

☐ 7104 BTEC 102R (3) 1:30-4pm TTh MOR 112 Cantin

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

**Applied Business Math**

☞ 7106 BTEC 120A4 (5) 8-8:50am Daily WAH 105 Crawford

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**

7107 BTEC 190A (1-12) ARR ARR ARR Copeland

See description under Cooperative Work Experience heading.

**Work Experience Seminar**

☞ 7108 BTEC 191AP1 (1) Online Copeland

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

**Word I**

☞ 7110 BTEC 210A3 (5) 11-11:50am Daily WAH 205 Shultz

☐☞ 7112 BTEC 210R5 (5) Flexible MOR 112 Cantin

Class covers Word in depth: document preparation, formatting, graphics, WordArt, columns, sorts, charts, mail merge, and styles. Students will format business documents to business standards. Prerequisite: keyboard skill of 35wpm or instructor permission.

**Excel**

☞ 7113 BTEC 214A3 (5) 12-12:50pm MTWTh WAH 205 Shultz

☐☞ 7115 BTEC 214R5 (5) Flexible MOR 112 Cantin

A hands-on approach for beginning through intermediate level applications of Excel spreadsheet using a variety of business applications. Prerequisite: word processing, windows, keyboard skills.

**Desktop Publishing**

7116 BTEC 218A (4) 11-11:50am MWF WAH 207 Vandegrift

☐☞ 7118 BTEC 218R5 (4) Flexible MOR 112 Cantin

Course covers desktop publishing terminology and concepts to plan, create, and design professional-looking businesses and personal documents. Prerequisite: Word, keyboard speed of 35wpm.

**Word II**

☞ 7119 BTEC 219A3 (4) 9-9:50am MTWTh WAH 205 Shultz

☐☞ 7121 BTEC 219R5 (4) Flexible MOR 112 Cantin

Course covers footnotes, endnotes, citations, bibliographies, table of contents, indexes, linked textboxes, multilevel lists, building blocks, fill-in forms, macros, outlines, Quick Parts, templates formal reports. Prerequisite: Word 1, keyboard speed of 35wpm.

**Ten-Key Calculator**

7122 BTEC 220A (1) 10-10:50am MW WAH 111 Vandegrift

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

**Business Communications**

7123 BTEC 221A (5) 10-10:50am Daily WAH 207 Copeland

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

**Microsoft Office-PowerPoint Module**

☐☞ 7125 BTEC 222R5 (1) ARR Th MOR 112 Cantin

An introduction to Microsoft PowerPoint. Upon completion of this course students should have beginning knowledge of a presentation program. Prerequisite: keyboard speed of 35wpm, Windows Workstations OS or instructor permission.

**General Office Procedures**

7126 BTEC 224A (5) 1-2:20pm MWF WAH 212 Vandegrift

Topics include: professional image and dress, 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. Prerequisite: grade of 2.0 in BTEC 110 or instructor permission.

**Medical Terminology**

8142 BTEC 260A (4) 12-12:50pm MTWTh WAH 146 Boemer

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

**Medical Office Procedures**

7129 BTEC 261A (5) 1-2:20pm MTWTh WAH 207 Copeland

Topics include professional image, medical ethics and law, safety, patient records, appointments, billing and collections, mail processing, meetings and travel arrangements, office finance, patient education, telephone procedures, cultural differences, and health insurance. Prerequisite: 2.0 or above in BTEC 101, 110, and 260.

**Medical Transcription**

7131 BTEC	263A	(4)	9-9:50am	Daily	WAH 207	Copeland
7132 BTEC	263B	(4)	12-12:50pm	Daily	WAH 207	Copeland

A review of medical terminology and the preparation of medical transcripts. Prerequisite: 2.0 or above in BTEC 102, 110, and 260 and typing speed of 40wpm. Lab fee \$7.36.

**Medical Law and Ethics**

7133 BTEC	266AP1 (3)	Online				Boerner
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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**

7144 CDP	101A4 (5)	12-1:50pm	TTh	TAC 340	Rabe S
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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, 2.0 or higher.

**Relapse Prevention**

8114 CDP	240AP1 (2)	Online			Rabe S
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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 w/2.0 or higher

**CDP Supervised Practicum**

7149 CDP	280A (5)	8-9:30am	M	TAC 338	Rabe S
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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 & practicum placement, 2.0 or higher in core classes.

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

7189 CHEM&	121A4 (5)	8-8:50am	MTWTh	WSC 121	Goeden
		1-2:50pm	M	WSC 308	Goeden
7190 CHEM&	121B4 (5)	8-8:50am	MTWTh	WSC 121	Goeden
		1-2:50pm	Th	WSC 308	Goeden
7191 CHEM&	121C4 (5)	8-8:50am	MTWTh	WSC 121	Goeden
		3:20-5:10pm	Th	WSC 308	Goeden
8148 CHEM&	121S3 (5)	1:30-3:20pm	F	MOR 101	Brown D

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)**

7192 CHEM&	131A4 (5)	11-11:50am	MTWTh	WSC 121	Goeden
		1-2:50pm	W	WSC 308	Goeden

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)**

7193 CHEM&	162A4 (6)	10-10:50am	MTWTh	WSC 110	Goeden
		1-4:50pm	T	WSC 308	Bradley

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

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

7194 CHEM&	163A4 (6)	10-10:50am	MTWTh	WSC 121	Goodwin K
		1-4:50pm	T	WSC 302	Goodwin K
7195 CHEM&	163B4 (6)	10-10:50am	MTWTh	WSC 121	Goodwin K
		1-4:50pm	W	WSC 302	Goodwin K

Third of a three-quarter sequence. Includes equilibrium, acids and bases, acid/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**

7196 CHEM&	263A4 (6)	12-12:50pm	MTWTh	WSC 121	Goodwin K
		1-4:50pm	Th	WSC 302	Goodwin K

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

**Research in Chemistry**

7188 CHEM	270B (1-12)	ARR	ARR	ARR	Goodwin K
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Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

**CHILD & FAMILY STUDIES****Learning and Playing**

7150 CFS	110ELL (1-2)	ARR	ARR	ARR	Burkhart
7151 CFS	110MOR (1-2)	9:30-11:30am	Th	MOR	Hanson

Parents learn about child development and how to apply that knowledge in their parenting role. Children attend classes with parents and participate in learning activities. Lab fee \$11.

**Learning with Infants and Toddlers**

7152 CFS	122B (2)	ARR	ARR	CEN	Austin
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Parents learn about child development and how to apply that knowledge in their parenting role. Children attend classes with parents and participate in learning activities, music, discussion and art.

**Positive Parenting Children in Childcare**

7153 CFS	132AP1 (1-2)	Online			Kirkpatrick
7171 CFS	142AP1 (1-2)	Online			Kirkpatrick
7180 CFS	152AP1 (1-2)	Online			Kirkpatrick

**Positive Parenting Children in ECEAP**

8110 CFS	132CLS (4)	ARR	ARR	CDC	Chapman
7157 CFS	132CHE (1-4)	ARR	ARR	CHE	Osborne
7154 CFS	132BEC (1)	ARR	ARR	ARR	Martin
7172 CFS	142BEC (1)	ARR	ARR	ARR	Martin
7181 CFS	152BEC (1)	ARR	ARR	ARR	Martin
7156 CFS	132CEC (1-2)	ARR	ARR	ARR	Osborne
7174 CFS	142CEC (1-2)	ARR	ARR	ARR	Osborne
7182 CFS	152CEC (1-2)	ARR	ARR	ARR	Osborne
7155 CFS	132CAM (1-2)	ARR	ARR	ARR	Osborne
7173 CFS	142CAM (1-2)	ARR	ARR	ARR	Osborne
7169 CFS	132SEC (1-2)	ARR	ARR	ARR	Scannell
7179 CFS	142SEC (1-2)	ARR	ARR	ARR	Scannell
7186 CFS	152SEC (1-4)	ARR	ARR	ARR	Scannell

**Positive Parenting Children in Head Start**

7161 CFS	132H (1-2)	ARR	ARR	CEN	Smith
7176 CFS	142H (1-2)	ARR	ARR	CEN	Smith

**Positive Parenting in Cooperative Preschool**

7159 CFS	132FDL (1-2)	ARR	ARR	CEN	Chapman
7175 CFS	142FDL (1-2)	ARR	ARR	CEN	Chapman
7183 CFS	152FDL (1-2)	ARR	ARR	CEN	Chapman
<input type="checkbox"/> 7164 CFS	132MOR (1-2)	ARR	ARR	MOR	Hanson
<input type="checkbox"/> 7177 CFS	142MOR (1-2)	ARR	ARR	MOR	Hanson
<input type="checkbox"/> 7184 CFS	152MOR (1-2)	ARR	ARR	MOR	Hanson
7168 CFS	132ROC (1-2)	ARR	ARR	ROC	Chapman
7178 CFS	142ROC (1-2)	ARR	ARR	ROC	Chapman
7185 CFS	152ROC (1-2)	ARR	ARR	ROC	Chapman

**Leadership**

7162 CFS	132LDP (1-4)	ARR	ARR	ARR	Chapman
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**Positive Parenting as a Grandparent**

7160 CFS	132GAP (1)	6-7:50pm	M	HFL	Rearden
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**Training in Positive Parenting Skills-TIPS**

7163 CFS	132M (4)	5:30-7:20pm	TW	HFL	Osborne
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**Positive Parenting in Recovery**

7167 CFS	132REC (2)	ARR	ARR	CDC	Osborne
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**Positive Parenting Dynamic Dads**

7158 CFS	132DAD (1-4)	9-11:50am	Sa	LAX	Kauano
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**Positive Parenting Social Kids**

7170 CFS	132SSK (1-4)	ARR	ARR	ARR	Quinlan G
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**CHINESE****Chinese II (H)**

☞ 7197 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)**

☞ 7198 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)**

☞ 7199 CHIN& 223A4 (5) 10-10:50am Daily WSC 205 Wynder  
Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 222 or instructor permission.

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

☞ 7210 CMST& 102A4 (5) 11-11:50am Daily WAH 115 Fisher  
☞ 7211 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)**

☞ 8140 CMST 130A3 (5) 12-1:20pm MW TAC 340 McQuarrie  
+2 hrs/wk TBA

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

**Public Speaking (H)**

☞ 7212 CMST& 220A4 (5) 8-8:50am Daily TAC 340 McQuarrie  
☞ 7213 CMST& 220B4 (5) 9-9:50am Daily TAC 340 McQuarrie  
☞ 7214 CMST& 220C4 (5) 11-11:50am Daily TAC 340 McQuarrie  
☞ 7215 CMST& 220D4 (5) 12-12:50pm Daily WAH 105 Majors  
☞ 7216 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**

7217 COMM 100A (2) 8-8:50am T WSC 101 Hoel  
☞ 7218 COMM 100BP1 (2) Online Hoel

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

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

7219 COOP 190RE (1-12) ARR ARR MOR Bames  
Cooperative Work Experience allows students to apply classroom learning to on-the-job settings. Credit is earned for new and continued learning taking place in the work environment. Reaching set learning objectives and development of positive work habits are emphasized. The Cooperative Education faculty coordinator, the student employee, and the worksite supervisor identify the learning objectives. 30-360 hrs on-the-job per quarter. Instructor 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**

☞ 7205 CJ& 101A3 (5) 9-9:50am MTWTh WAH 105 Gilbertson  
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**

7200 CJ 109A3 (5) 12-1:50pm MW NRA Gilbertson  
 7201 CJ 109BP1 (5) Online Belden

Focus on resolving community issues and concerns via Community Oriented Policing and Problem Solving (COPPS) skills and strategies. Pre/corequisite: CJ& 101 or instructor permission. Lab fee \$15.31.

**Criminal Law**

7206 CJ& 110A3 (5) 10-10:50am MTWTh WAH 105 Gilbertson

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**

7202 CJ 111A3 (5) 11-11:50am MTWTh WSC 109 Gilbertson

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.

**Reports, Forms & Affidavits**

8144 CJ 204AP1 (5) Online Belden

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

**Crime Scene Technology**

7203 CJ 225A3 (5) 12-2:50pm T WSC 211 McLeod W

Students learn techniques to collect and preserve common evidentiary items located at crime scenes for future laboratory analysis and judicial proceedings while ensuring proper chain of custody. Aspects of arson investigation are also studied. Lab fee \$14.38.

**Crime Scene Photography**

7204 CJ 228A3 (5) 1-3:50pm Th WSC 110 Belden

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**

7208 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**

7221 DET 102A (1) 8am-5pm ARR DSL 104 McCarthy

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

**Internal Combustion Engines I**

7222 DET 120A3 (7) 9-9:50am MTWTh DSL 104 McCarthy  
 10am-2:30pm MTWTh DSL 106 McCarthy

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 4/2 - 5/3.**

**Shop Skills for Welders**

7223 DET 166A3 (3) 9-10:50am TTh TEC 154 Driscoll

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**

7224 DET 190A3 (1-15) ARR ARR ARR McCarthy

See description under Cooperative Work Experience heading.

**Practical Shop Applications**

7225 DET 230A3 (7) 8-8:50am MTWTh TEC 104 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 5/7 - 6/11.**

**Mobile HVAC Systems**

7226 DET 235A3 (7) 8-8:50am MTWTh DSL 104 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 4/2 - 5/3.**

**DRAMA****Beginning Acting (H)**

7234 DRMA 107A4 (5) CANCELED

Introduction with emphasis on concentration, imagination, movement, and characterization via vocal, physical, emotional exercises, improvisation, and scene work. Students will be expected to attend two plays during the quarter at their own expense.

**Intermediate Acting (H)**

8200 DRMA 108A4 (5) 11am-12:50pm MW WAH 150 Kreilkamp  
 11-11:50am F WAH 150 Kreilkamp

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

**Dramatic Performance (H)**

7235 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.

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

7247 ECON& 201A4 (5) 12-12:50pm Daily WSC 110 Suozzo  
 7248 ECON& 201BP1 (5) Online Suozzo

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

**Macroeconomics (SS)**

7249 ECON& 202A4 (5) 9-9:50am Daily WSC 213 Suozzo  
 7250 ECON& 202N3 (5) 5-6:50pm W WSC 204 Suozzo  
 +3 hrs/wk TBA

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

☎ 7252 EDUC& 130AS1 (3) Online Price

Examine the principles and theories promoting social competence in young children and creating safe learning environments. Develop skills promoting effective interactions while providing positive individual guidance and enhancing group experiences.

### Intro to Ed w/Field Exp

☎ 8206 EDUC& 205AT4 (5) 10-11:30am TTh WSC 211 Spain

☐☎ 8214 EDUC& 205RT4 (5) 10-11:30am TTh MOR 110 Spain

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

## EDUCATION-EARLY CHILDHOOD

### Child Care Basics

☎ 7240 ECED& 100AW1 (3) Online Staff

☎ 8215 ECED& 100BS1 (3) Online Burkhardt

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.

### Health/Safety/Nutrition

☎ 7241 ECED& 107AW1 (5) Online Staff

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

### Practicum-Nurturing Rel

8232 ECED& 120A (2) 2:30-4:30pm M WSC 109 Burkhardt

Students gain experience engaging in nurturing relationships with children, keeping children safe and promoting children's growth and development. Lab fee \$10.

### Infants/Toddlers Care

☎ 7242 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.

### Admin Early Lrng Prog

☎ 7243 ECED& 139AW1 (3) Online Staff

Establish administrative skills required to develop, open, operate, manage, and assess early childhood education and care programs. Explore techniques and resources available that meet Washington State licensing and NAEYC standards.

### Curriculum Development

☎ 7244 ECED& 160A4 (5) 1-3:20pm W WSC 107 Kirkpatrick  
1-3:20pm W WSC 107 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

☎ 7237 ECED 181A4 (5) 2-4:50pm T WSC 108 Kirkpatrick  
2-4:50pm T WSC 108 Lovelett  
+4 hrs/wk TBA

Create teaching strategies for language acquisition and literacy skills at each developmental stage (birth-8) through the four interrelated areas of listening, speaking, writing, and reading. Lab fee \$10.

### ECE Practicum II

☎ 7239 ECED 233A3 (5) 2-3:50pm M HFL Spain  
+6 hrs/wk TBA

Develop a professional understanding of teaching methods and practices with an opportunity to evaluate teaching skills and learning environment. Must have completed at least 30 credits in ECE or have instructor permission. Lab fee \$10.

## ELECTRONICS/ROBOTICS

See *Mechatronics* heading

## ENERGY TECHNOLOGY

### Electric Utility Distribution System

☎ 7542 PPO 103AT3 (5) 1-3:20pm M TAC 338 Crawford

Continuing coverage of power systems, boilers and prime movers. Prerequisite: PPO 102.

### Industrial Safety

☎ 7543 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

☎ 7544 PPO 203AT3 (5) 1-3:20pm T TAC 338 Steidel

Provides a background in power plant operations and controls. Prerequisite: PPO 202.

### Power System Operator II

7545 PPO 206A (5) CANCELED

This continuation of PPO 205 provides students with background in operating the American electrical grid system under North American Electrical Reliability Corporation (NERC) required standards and prepares for NERC exam. Prerequisite: minimum 2.5 grade in PPO 205 or instructor permission.

## ENGINEERING

### Engineering Graphics I

☎ 7299 ENGR& 111A4 (2) 1-2:50pm MTWTh TAC 332 Peterson D  
1-1:50pm F 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 4/2 - 4/27.**

### Engineering Graphics II

☎ 7300 ENGR& 112A4 (3) 1-2:50pm MTWTh TAC 332 Peterson D  
1-1:50pm F TAC 332 Hitch

Continuation of ENGR& 111. Emphasizes basic concepts of engineering graphics in CAD-based descriptive geometry applications. The latter part of the course covers a variety of 3-D modeling techniques and solid mass properties extraction. AUTOCAD software is used as the primary CAD-tool. Prerequisites: ENGR& 111 or equivalent, MATH 111, or instructor permission. **Class meets 4/30 - 6/11.**

### Electrical Circuits

7301 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

7302 ENGR& 214A (5) 12-12:50pm Daily WSC 108 Threapleton

The first of a three-quarter 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

7298 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

7255 ENGL 094N (1-5) 5-7:20pm TTh WSC 111 Shriver G  
7256 ENGL 094R4 (1-5) 8:30-10:50am MW MOR 108 Barnes

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

7257 ENGL 095N (1-5) 5-7:20pm TTh WSC 111 Shriver G

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

### Vocabulary Development II

7258 ENGL 096N (1-5) 5-7:20pm MW WSC 111 Shriver G  
7259 ENGL 096R4 (1-5) 8:30-10:50am MW MOR 108 Barnes

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

7260 ENGL 097N (1-5) 5-7:20pm MW WSC 111 Shriver G

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

### Writing & Grammar Review

7261 ENGL 098A (1-5) 10-10:50am Daily WAH 113 Shriver G  
7262 ENGL 098N (1-5) 5-7:20pm TTh WSC 111 Shriver G  
7263 ENGL 098R4 (1-5) 8:30-10:50am MW MOR 108 Barnes  
7264 ENGL 098TC3 (1-5) 11:30am-12:50pm TWTh CTC Johnson R

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

### Fundamentals of English

7267 ENGL 099A (1-5) 10-10:50am Daily WAH 113 Shriver G  
7265 ENGL 099B (1-5) 11-11:50am Daily WAH 113 Burr  
7266 ENGL 099C (1-5) 12-12:50pm Daily WAH 103 Shriver G  
7268 ENGL 099N (1-5) 5-7:20pm TTh WSC 111 Shriver G  
7269 ENGL 099R4 (1-5) 8:30-10:50am MW MOR 108 Barnes  
7270 ENGL 099TC3 (1-5) 11:30am-12:50pm TWTh CTC Johnson R

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

### English Composition I (C)

7273 ENGL& 101A3 (5) 8-8:50am Daily WSC 111 Williams A  
7274 ENGL& 101B3 (5) 9-9:50am Daily MSG 106 Griffith  
7275 ENGL& 101C3 (5) 10-10:50am Daily TAC 340 Williams A  
7276 ENGL& 101D3 (5) 11-11:50am MTWTh WAH 103 Erickson  
+1 hr/wk  
7277 ENGL& 101E3 (5) 12-12:50pm Daily WAH 109 Wallezer  
7278 ENGL& 101F3 (5) 1-1:50pm Daily WSC 206 Williams A  
7282 ENGL& 101TC3 (5) 11:30am-12:50pm TWTh CTC Johnson R  
7279 ENGL& 101GP1 (5) Online Davidson

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

### Composition II (C)

7283 ENGL& 102A3 (5) 8-8:50am Daily WSC 206 Weil  
7284 ENGL& 102B3 (5) 9-9:50am MTWTh WAH 113 Erickson  
+1 hr/wk TBA  
7285 ENGL& 102C3 (5) 10-10:50am Daily WSC 101 Wallezer  
7287 ENGL& 102D3 (5) 11-11:50am Daily WSC 101 Wallezer  
7289 ENGL& 102E3 (5) 12-12:50pm Daily WSC 206 Weil  
7290 ENGL& 102F3 (5) 12-12:50pm MWF WSC 101 Young  
+2 hrs/wk TBA  
7291 ENGL& 102G3 (5) 1-1:50pm MTWTh WAH 105 Erickson  
+1 hr/wk TBA  
7294 ENGL& 102N3 (5) 5-6:50pm M WSC 107 Williams A  
+3 hrs/wk TBA  
7295 ENGL& 102R (5) 9-11:20am MW MOR 101 Nellis  
7296 ENGL& 102TC3 (5) 9-10:30am TTh CTC Foss  
+2 hrs/wk TBA  
7292 ENGL& 102HP1 (5) Online Foss  
7293 ENGL& 102JP1 (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. Section TC3 is held at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville.

### Intro to Literature (H)

8205 ENGL& 111A3 (5) 10-10:50am MWF TAC 338 Young  
+2 hrs/wk TBA

Introduces the major genres, techniques and themes of literature by examining the work of a variety of classic and contemporary authors.

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

☞ 7271 ENGL 160AP1 (5) Online Foss  
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.

**Introduction to Shakespeare (H)**

☞ 8201 ENGL 204A4 (5) 10-10:50am Daily TAC 338 Kreilkamp  
Learn about the life, times and works of William Shakespeare. Emphasis will be placed upon the lives of Elizabethans - their likes and dislikes, superstitions and social order as they pertained to this golden age of the theatre. Additionally, students will develop an understanding of and appreciation for Shakespeare's plays by studying 6 of the 37 plays that the Bard wrote.

**Science Fiction (H)**

☞ 7272 ENGL 251A3 (5) 11-11:50am Daily WSC 206 Weil  
Surveys rise and development of science fiction, focusing on short stories; students may address novels in course projects. Explores common themes: Science fiction as social commentary; technology; war; relationships; race; gender; defining "human." Creative writing options.

**Writing in the Workplace**

☞ 7598 WRT 105A4 (5) 8-8:50am Daily WAH 207 Erickson  
☞ 7599 WRT 105BP1 (5) Online Foss  
Study a variety of workplace communications, along with proper use of grammar, sentence structure, mechanics and vocabulary within those communications. Prerequisite: ENGL 098 or equivalent score on Compass/Asset test.

**ENVIRONMENTAL SCIENCE****Survey of Env Science (NS)**

☞ 7303 ENV5& 100A3 (5) 10-10:50am MTWTh NRA Tonn N  
+1 hr/wk 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)**

☞ 7311 GEOL& 101A4 (5) 11-11:50am MTWTh WSC 105 Harris  
1-2:50pm W WSC 105 Harris  
☞ 7312 GEOL& 101B4 (5) 11-11:50am 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.

**Natural Hazards and Catastrophes (NS)**

☞ 7308 GEOL 108A4 (5) 10-10:50am MTWTh WSC 101 Harris  
1-2:50pm T WSC 105 Harris  
☞ 7309 GEOL 108B4 (5) 10-10:50am MTWTh WSC 101 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**

7310 GEOL 270A (1-12) ARR ARR ARR Harris  
Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

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

☞ 7329 HLTH 120RP1 (3) Online Jones  
An opportunity to examine current women's health and well-being issues.

**Health & Wellness (HF)**

☞ 7330 HLTH 130A4 (3) 9-9:50am MWF MSG 115 Johnson C  
☞ 7331 HLTH 130R3 (3) CANCELED

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.

**Exercise & Nutrition (HF)**

☞ 7334 HLTH 140A4 (3) 12-12:50pm MWTh MSG 115 Johnson C  
☞ 7333 HLTH 140BP1 (3) Online Sanchez

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

**Stress Management (HF)**

☞ 7335 HLTH 143A3 (2) 9-9:50am TTh MSG 115 Johnson C  
☞ 7336 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)**

☞ 7337 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)**

☞ 7338 HLTH 145A4 (3) 8-8:50am MWF MSG 106 Sanchez  
☞ 7339 HLTH 145BP1 (3) Online Johnson C  
☞ 7340 HLTH 145CP1 (3) Online Johnson C

The course emphasizes the importance of safety, first aid, and exercise as they relate to an individual's level of health and fitness. The course includes the American Heart Association Heartsaver First Aid/CPR and AED certification. Lab fee \$48.25. **Online class sections include a required, on-campus lab. Online students must attend one of the in-person training days. Choose May 30, 1:30-6pm OR June 5, 1:30-6pm. On-campus labs are held in MSG 106.**

**Community First Aid and CPR**

7341 HLTH 154A (1) 8:30am-4pm Sa MSG 106 Layton  
7342 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)

7317 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)

7318 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)

7319 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)

7320 HIST& 148A (5) 12-12:50pm Daily WSC 204 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

7313 H R 110A3 (5) 10-10:50am MWF WAH 115 McClain  
7314 H R 110B3 (5) 12-12:50pm MWF WSC 107 Smejkal  
7315 H R 110CP1 (5) Online McClain  
7316 H R 110R4 (5) 11:30am-1pm MTW MOR 108 Barnes

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)

7348 HUM& 118A4 (5) 9-9:50am Daily WAH 109 Mitchler  
A survey of the major movements in art, architecture, music, philosophy, and literature in a historical context, from 1800 C.E. to the present.

### Lyceum III

7343 HUM 283A (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

### Intro to Windows OS

7350 IT 117A4 (3) 8-8:50am MWF WAH 211 Alves  
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

7351 IT 119A3 (5) 9-9:50am 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.

### Networking Fundamentals

8116 IT 201A3 (5) 10-10:50am MTWTh WAH 216 Allison  
This course is based on CompTIA Network+ certification materials. Material covered includes Fundamental Concepts, Terminology, LANs, WANs, Internetworking, VLANs, Routing Basics and Wireless Networking. Prerequisite: MATH 098. Lab fee \$50.

### Network Security

7358 IT 203A3 (5) 11-11:50am MTWTh WAH 216 Allison  
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 3

7359 IT 220A3 (5) 1-1:50pm MTWTh WAH 216 Allison  
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 3

7360 IT 230A3 (5) 12-12:50pm MWTh WAH 211 Carlson C  
12-1:50pm T WAH 211 Carlson C

Third and final course in the introduction to Java programming sequence. This course covers recursion, exception handling and recovery, remote file access, event driven programming, binary search trees, and priority queues. Prerequisite: IT 224 and IT 228. Lab fee \$25.

### Advanced Web Development

8117 IT 260A3 (5) 11-11:50am MTWTh WAH 211 Kerschner  
Students will learn to develop applications that use three-tier architecture, allowing for rich client side user interfaces, sophisticated functionality, and advanced database interactions. This course builds on previous experience in web development. Lab fee \$50.

### Mobile Applications

8118 IT 265A3 (5) 1-1:50pm MTWTh WAH 211 Kerschner  
Students will learn how to design and implement software in a mobile environment, using the device's sensors, distribution models, location awareness, and other interactive elements present in the mobile device. Lab fee \$50.

### Computer Science I C++

7220 CS& 131A3 (5) 10-10:50am 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.

## INTENSIVE ENGLISH PROGRAM

### Comprehension Language 1 - 4

7363 IEP 070A4 (1-9) 1-2:50pm Daily MSG 106 Lovelett  
7365 IEP 072A4 (1-9) 1-2:50pm Daily MSG 106 Lovelett  
7367 IEP 074A4 (1-9) 1-2:50pm Daily MSG 106 Lovelett  
7369 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 1 - 3

7364	IEP	071A	(9)	9-10:50am	Daily	LIB 125	Burr
7366	IEP	073A4	(9)	9-10:50am	Daily	LIB 125	Burr
7368	IEP	075A4	(9)	9-10:50am	Daily	LIB 125	Burr

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

### Communicative Language 4

7370	IEP	077A4	(9)	9-10:50am	Daily	LIB 125	Burr
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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

7388	MATH	095A4	(1-5)	9-9:50am	Daily	LIB 003B	Spitzer
7390	MATH	095N4	(1-5)	4:30-6:50pm	MTWTh	LIB 112	Palkowski
7391	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

7392	MATH	096A4	(1-5)	7-7:50am	Daily	LIB 003B	Spitzer
8152	MATH	096E4	(1-5)	8-8:50am	Daily	LIB 0112	Spitzer
7393	MATH	096B4	(1-5)	9-9:50am	Daily	WSC 215	Brosz
7394	MATH	096C4	(1-5)	11-11:50am	Daily	WSC 107	Ziegler
8251	MATH	096F4	(1-5)	11-11:50am	Daily	LIB 112	Brosz
7395	MATH	096D4	(1-5)	1-2:15pm	MTWTh	LIB 003B	Spitzer
7396	MATH	096N4	(1-5)	4:30-6:50pm	MTWTh	LIB 112	Palkowski
7397	MATH	096S4	(1-5)	4:30-6:50pm	MW	MOR 108	Winkler
7398	MATH	096TC4	(1-5)	10-11:05am	MTWTh	CTC	Griffith

Covers percents, proportions, unit conversions, geometry, simplifying algebraic expressions and solving simple first degree linear equations. Prerequisite: MATH 095 or appropriate test score placement. Section TC4 is held at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville. Sections D4, F4 are Math Emporium.

### Algebra for Statistics

7399	MATH	097A4	(5)	12-12:50pm	Daily	WSC 215	Brosz
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An algebra course for students intending to enroll in MATH& 146, Introduction to Stats. This course does not meet the algebra prerequisite or other quantitative skills courses or for transfer to the University of Washington. Prerequisite: MATH 096 or Compass score of 78+.

### Algebra I

7400	MATH	098A4	(1-5)	7-7:50am	Daily	LIB 003B	Spitzer
8153	MATH	098F4	(1-5)	8-8:50am	Daily	LIB 0112	Spitzer
7401	MATH	098B4	(1-5)	9-9:50am	Daily	WSC 107	Ziegler
7402	MATH	098C4	(1-5)	10-10:50am	Daily	WSC 215	Brosz
8252	MATH	098G4	(1-5)	11-11:50am	Daily	LIB 112	Brosz
7403	MATH	098D4	(1-5)	1-2:15pm	MTWTh	LIB 003B	Spitzer
7405	MATH	098N4	(1-5)	4:30-6:50pm	MTWTh	LIB 112	Palkowski
7406	MATH	098S4	(1-5)	4:30-6:50pm	MW	MOR 108	Winkler
7404	MATH	098EP1	(1-5)	Online			Ziegler

For students with good arithmetic skills and familiarity with signed numbers and basic algebraic expressions. Problem-solving skills are emphasized. Topics include: linear equations and inequalities, graphing, polynomials, and rational expressions. Prerequisite: MATH 096. Sections D4, G4 are Math Emporium.

### Algebra II

7407	MATH	099A4	(1-5)	7-7:50am	Daily	LIB 003B	Spitzer
8154	MATH	099E4	(1-5)	8-8:50am	Daily	LIB 0112	Spitzer
7408	MATH	099B4	(1-5)	10-10:50am	Daily	WSC 107	Ziegler
7409	MATH	099C4	(1-5)	11-11:50am	Daily	LIB 112	Brosz
7410	MATH	099D4	(1-5)	1-2:15pm	MTWTh	LIB 003B	Spitzer
7412	MATH	099N4	(1-5)	4:30-6:50pm	MTWTh	LIB 112	Palkowski
7413	MATH	099S4	(1-5)	4:30-6:50pm	MW	MOR 108	Winkler
7411	MATH	099EP1	(1-5)	Online			Ziegler

Introduces the concept of functions, their graphs and properties. Particular attention will be paid to linear, quadratic, exponential and logarithmic functions. Prerequisite: MATH 098 or equivalent. Section D4 is Math Emporium

### Math in Society (M)

7418	MATH&	107A4	(5)	1-1:50pm	Daily	WSC 111	Griffith
7420	MATH&	107TC4	(5)	CANCELED			
7419	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. Section TC4 is held at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville.

### Discrete Structures (M)

7414	MATH	128A4	(5)	11-11:50am	Daily		Gul
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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 1 (M)

7421	MATH&	131AP1	(5)	Online			Tveten
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Designed to provide the conceptual framework for teaching mathematics from kindergarten through eighth grade. Prerequisite: MATH 099 or equivalent ASSET/COMPASS score.

### Math for Elem Educ 2 (M)

7422	MATH&	132A4	(5)	12-1:50pm	MWF		Taylor
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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)

7423	MATH&	141A4	(5)	8-8:50am	Daily	WSC 204	Tonn D
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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)

7424	MATH&	142A4	(5)	11-11:50am	Daily	WAH 212	Tonn D
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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

7415	MATH	145A3	(1)	11-11:50am	Daily	WAH 212	Kiekel
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Refreshes and enhances the necessary prerequisite skills for a college-level statistics course. Topics include algebra for statistics, spreadsheet software skills, and probabilistic reasoning. Prerequisite: MATH 097, 099 or equivalent, or instructor permission.

**Class meets 4/2 - 4/20.**

**Introduction to Stats (M)**

☞	7426 MATH& 146A4	(5)	12-12:50pm	Daily	WSC 213	Kiel
☞	7429 MATH& 146D4	(5)	1-1:50pm	Daily	WSC 213	Kiel
☞	7430 MATH& 146N3	(5)	5-6:50pm	T	WSC 213	Kiel
☐☞	8149 MATH& 146S4	(5)	4:30-6:50pm	TTh	MOR 108	Winkler
☐☞	7431 MATH& 146ST3	(5)	CANCELED			
☞	7427 MATH& 146BP1	(5)	Online			Kostick

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

**Calculus I (M)**

☞	7432 MATH& 151A4	(5)	8-8:50am	Daily	WSC 215	Carlson C
☞	7433 MATH& 151BP1	(5)	Online			Taylor

The first in a four-quarter sequence. Limits, derivatives of algebraic and some transcendental functions, applications of derivatives, the indefinite integral. Topics covered from numerical, analytical and graphical viewpoints. Prerequisite: MATH& 142 or equivalent.

**Calculus II (M)**

☞	7434 MATH& 152A4	(5)	9-9:50am	Daily	WSC 206	Carlson C
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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**

☞	7416 MATH 212A4	(5)	11-11:50am	Daily	WSC 108	Carlson C
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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**

☞	7417 MATH 264A4	(3)	1-2:20pm	TTh	WSC 204	Taylor
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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.

**Industrial Math**

☞	7590 TMATH 116A4	(5)	8-8:50am	Daily	WSC 213	Kiel
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Application of basic mathematical operations to specific workforce programs including common fractions, decimal fractions, percentages, ratio and proportion, practical algebra, and computations involving rectangles and triangles. Emphasizes the use of mathematics in diesel and welding. Prerequisite: MATH 095.

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

	7304 ERA 117A	(4)	9-9:50am	Daily	TAC 331	Peterson
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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 ERA 116 or MEC 116. Lab fee \$67.

**Electrohydraulics**

	7436 MEC 154A	(4)	10-10:50am	Daily	TAC 333	Steidel
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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.

**Solid State Devices**

☞	7305 ERA 170A4	(4)	10-10:50am	Daily	TAC 331	Peterson D
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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.

**Co-op Work Experience**

	7437 MEC 190A	(1-12)	ARR	ARR	ARR	Whalen
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Education through experience in an industrial automated facility. Students will learn safe work habits and proper workplace procedures and interaction strategies under the instruction of workplace supervisor. Prerequisite: instructor permission and Co-op Work Experience Seminar.

**Communication Systems**

	8120 ERA 235A	(3)	8-8:50am	MTWTh	TAC 331	Peterson D
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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.

**Digital Allen Bradley PLCs**

	7438 MEC 260A	(5)	11-11:50am	Daily	TAC 333	Peterson D
			+2 hrs/wk TBA			

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**

	7439 MEC 270A	(5)	12-12:50pm	MWF	TAC 332	Whalen
			1-2:50pm	MW	TAC 332	Whalen

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.

**Robotics Capstone**

	8121 ERA 276A	(3)	9-9:50am	MTWTh	TAC 332	Whalen
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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. Instructor permission required.

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

☞	7378 M ST 128A4	(1)	2-2:50pm	W	WAH 140	Fisher
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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**

☞	7380 M ST 220A4	(4)	12-12:50pm	Daily	WAH 115	Fisher
			12-12:50pm	Daily	WAH 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

📺	7381	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

📺	7382	M ST	271A4	(1)	ARR	ARR	WAH 140	Fisher
📺	7383	M ST	272A4	(2)	ARR	ARR	WAH 140	Fisher
📺	7384	M ST	273A4	(3)	ARR	ARR	WAH 140	Fisher
📺	7385	M ST	274A4	(4)	ARR	ARR	WAH 140	Fisher

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

### TV Broadcasting Internship

📺	7386	M ST	281A4	(1)	1-2:50pm	T	WAH 115	Fisher
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Designed for students who wish to produce independent video projects outside of the classroom environment. Permission of instructor required. Prerequisite: M ST 260, 261, 262.

## MEDICAL ASSISTANT

### Medical Math

	7371	MA	130A	(5)	10-10:50am	Daily	WSC 206	Steidel
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A mathematics course that focuses on solving applications using percent, proportion, and unit conversion as well as descriptive data interpretation. Satisfies the math requirement for Medical Assistant AAS. Prerequisite: MATH 096 or equivalent.

### MA Medical Terminology

📺	7372	MA	139A3	(5)	9-9:50am	MTWTh	WAH 146	Boerner
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A required class for all students enrolled in the Medical Assistant Program to develop a medical vocabulary from an anatomy, physiology, and pathology format. It is suitable for others entering medical-related fields. Lab fee \$5.

### Medical Assisting Intro

	7373	MA	140A	(5)	1-2:50pm	MTW	TEC 115	Speer
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An introduction to the profession of medical assisting in the ambulatory health care setting. Designed to explore the medical assistant as a valuable member of the health care team. Lab fee \$33.

### MA Electrocardiography

	7374	MA	208A	(2)	ARR	ARR	ARR	Layton
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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

📺	7375	MA	243A3	(6)	10am-12:50pm	Daily	WAH 146	Boerner
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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 4/2 - 5/4.**

### MA Externship Seminar

📺	7376	MA	244AP1	(1)	CANCELED			
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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. **Class meets 5/7 - 6/8.**

### MA Clinical Externship

	7377	MA	245A	(6)	ARR	ARR	WAH 146	Boerner
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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. **Class meets 5/7 - 6/8.**

## MUSIC

### Fundamentals of Music (H)

📺	7445	MUSC	100A4	(5)	9-9:50am	Daily	WAH 125	ODonel
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Introduction to the elements of music theory, including scales, intervals, keys, triads, elementary ear training, notation, meter and rhythm.

### Music Appreciation (D)(H)

📺	7492	MUSC&	105A4	(5)	8-8:50am	Daily	WAH 103	ODonel
📺	7493	MUSC&	105BP1	(5)	Online			May

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

### Jazz Ensemble I - VI

📺	7447	MUSC	124A4	(2)	5-6:50pm	TTh	WAH 107	Lopez
📺	7448	MUSC	125A4	(2)	5-6:50pm	TTh	WAH 107	Lopez
📺	7449	MUSC	126A4	(2)	5-6:50pm	TTh	WAH 107	Lopez
📺	7450	MUSC	127A4	(2)	5-6:50pm	TTh	WAH 107	Lopez
📺	7451	MUSC	128A4	(2)	5-6:50pm	TTh	WAH 107	Lopez
📺	7452	MUSC	129A4	(2)	5-6:50pm	TTh	WAH 107	Lopez

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

### Beginning Guitar

	7453	MUSC	135A	(2)	1:30-3pm	TTh	WAH 107	Tillinghast
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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)

📺	8146	MUSC	140AP1	(5)	Online			May
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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)

📺	7495	MUSC&	143A4	(5)	10-10:50am	Daily	WAH 125	May
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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

	7454	MUSC	144A	(2)	2:45-4:10pm	MW	WAH 107	Jardine-Tobin
	7455	MUSC	145A	(2)	2:45-4:10pm	MW	WAH 107	Jardine-Tobin
	7456	MUSC	146A	(2)	2:45-4:10pm	MW	WAH 107	Jardine-Tobin
	7457	MUSC	147A	(2)	2:45-4:10pm	MW	WAH 107	Jardine-Tobin
	7458	MUSC	148A	(2)	2:45-4:10pm	MW	WAH 107	Jardine-Tobin
	7459	MUSC	149A	(2)	2:45-4:10pm	MW	WAH 107	Jardine-Tobin

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

### Functional Piano III

8105 MUSC 153A (1) 4:15-5pm MW WAH 125 Jardine-Tobin

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.

### Applied Music

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

#### Applied Flute

7460 MUSC 150A (1) ARR ARR ARR ODonel

#### Applied French Horn

7461 MUSC 154A (1) ARR ARR ARR Blaser

#### Applied Trumpet

7462 MUSC 155A (1) ARR ARR ARR Blaser

#### Applied Trombone

7463 MUSC 156A (1) ARR ARR ARR Lopez

#### Applied Tuba

7464 MUSC 157A (1) ARR ARR ARR Blaser

#### Applied Euphonium

7465 MUSC 158A (1) ARR ARR ARR Blaser

#### Applied Percussion

7466 MUSC 159A (1) ARR ARR ARR Blaser

#### Applied Piano

7467 MUSC 160A4 (1) ARR ARR ARR May

#### Applied Violin

7468 MUSC 161A (1) ARR ARR ARR Scarborough

#### Applied Viola

7469 MUSC 162A (1) ARR ARR ARR Scarborough

#### Applied Cello

7470 MUSC 163A (1) ARR ARR ARR Staff

#### Applied Double Bass

7471 MUSC 164A (1) ARR ARR ARR Staff

#### Applied Guitar

7472 MUSC 165A (1) ARR ARR ARR Tillinghast

#### Applied Saxophone

7473 MUSC 166A (1) ARR ARR ARR Blaser

#### Applied Voice

7474 MUSC 167A (1) ARR ARR ARR Colgan

#### Applied Composition

7475 MUSC 168A4 (1) ARR ARR ARR May

#### Applied Clarinet

7476 MUSC 169A (1) ARR ARR ARR Blaser

#### Applied Oboe

7477 MUSC 170A (1) ARR ARR ARR Blaser

#### Applied Bassoon

7478 MUSC 171A (1) ARR ARR ARR Staff

#### Applied Harp

8141 MUSC 172A (1) ARR ARR ARR Scott

### Community Band I - VI

7479	MUSC	175A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
7480	MUSC	176A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
7481	MUSC	177A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
7482	MUSC	178A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
7483	MUSC	179A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
7484	MUSC	180A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser

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

### Community Orchestra I - VI

7485	MUSC	185A	(2)	7-9pm	M	WAH 150	Freidlander
				ARR	M	ARR	Freidlander
7486	MUSC	186A	(2)	7-9pm	M	WAH 150	Freidlander
				ARR	M	ARR	Freidlander
7487	MUSC	187A	(2)	7-9pm	M	WAH 150	Freidlander
				ARR	M	ARR	Freidlander
7488	MUSC	188A	(2)	7-9pm	M	WAH 150	Freidlander
				ARR	M	ARR	Freidlander
7489	MUSC	189A	(2)	7-9pm	M	WAH 150	Freidlander
				ARR	M	ARR	Freidlander
7490	MUSC	190A	(2)	7-9pm	M	WAH 150	Freidlander
				ARR	M	ARR	Freidlander

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

### Guitar Ensemble I

8147 MUSC 191 (2) 12-1:30pm TTh WAH 107 Tillinghast

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

### Music Theory VI (H)

7496 MUSC& 243A4 (5) 2-2:50pm Daily WAH 125 May  
 8106 MUSC& 243BP1 (5) Online May

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

## NURSING

### Common Alterations II

7497 NURS 103A4 (12) ARR Daily WSC 202 Ormrod  
 7498 NURS 103B4 (12) ARR Daily WSC 202 Gustafson

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

### Complex Management

7499 NURS 203A4 (8) ARR Daily WSC 202 Capen  
 7500 NURS 203B4 (8) 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 and 202 or equivalent. Lab fee \$42.95.



**Transition to Practice**

☯ 7501 NURS 222A4 (4)	ARR	Daily	WSC 202	Schuchmann
☯ 7502 NURS 222B4 (4)	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 and 202 or equivalent; corequisite: NURS 203. Lab fee \$46.95.

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

☯ 7322 HLSV 131A4 (9)	8am-12pm 5:45am-12pm	MTWTh ARR	TEC 115 SCC	Speer Speer
☯ 7323 HLSV 131B4 (9)	8am-12pm 5:45am-12pm	MTWTh ARR	TEC 115 SCC	Speer Speer
☯ 8143 HLSV 131C4 (9)	3-6:30pm ARR	MTWTh ARR	TEC 115 ARR	Jameson Jameson

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 \$194.58.

**NUTRITION****Nutrition (NS)**

☯ 7503 NUTR& 101A4 (5)	10-10:50am	Daily	WSC 109	Ibrahim
☯ 7504 NUTR& 101BP1 (5)	Online			Ibrahim
☯ 7505 NUTR& 101CP1 (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)**

☯ 7506 OCEA& 101AP1 (5)	Online			Khandro
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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. Meets requirement for lab course.

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

☯ 7534 PHIL& 101AP1 (5)	Online			Diamant
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Investigate the assumptions philosophers have made about reality, knowledge, truth, God, morality, social construction, freedom, and paternalism.

**Introduction to Ethics (H)**

☯ 7533 PHIL 103AP1 (5)	Online			Diamant
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Focus on choices made in concrete circumstances. Study traditional ethical theories and present-day moral dilemmas.

**PHLEBOTOMY****Advanced Phlebotomy**

☯ 7535 PHLE 132A3 (8)	11:30am-2:20pm	MTWTh	WAH 146	Boerner
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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**

8108 P E 108A (1)	ARR	ARR	ARR	Malunat
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This course will cover the basic skills and techniques of soccer. Includes team defense and team offense. Lab fee \$3.10.

**Physical Fitness (HF)**

8133 P E 110A (1)	9-9:50am	TTh	MSG 125	Oien
☐ 7508 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**

7509 P E 115A (1)	12-12:50pm	TTh	MSG 103	Ewings
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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)**

☯ 7510 P E 120A3 (2)	9-9:50am	MWF	MSG 125	Oien
☐ 8219 P E 120R (2)	5-6:20pm	MW	MOR 101	Oien

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

**Stretching & Flexibility**

☯ 8136 P E 121A4 (1)	12-12:50pm	TF	MSG 200	Johnson C
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Learn safe stretches to increase flexibility and range of motion. Understand how stretching can help you decrease injury, recover after other workouts and calm your mind and body.

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

☯ 7511 P E 123A4 (1)	11-11:50am	MW	MSG 125	Oien
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Designed to condition the musculature of the body using machine and free weights. Lab fee \$3.10.

**Free Weights (HF)**

7512 P E 125A (1)	10-10:50am	TTh	MSG 130	Oien
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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**

7513 P E 131A (3)	ARR	ARR	MSG 103	Leduc J
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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.

**Boot Camp Basics (HF)**

7514 P E 140A (1)	12-12:50pm	TTh	MSG 125	Oien
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A high-impact exercise class designed to improve muscle strength, endurance, flexibility and aerobic capacity. Lab fee \$3.10.

**Cardio Combo (HF)**

☯ 7515 P E 142A4 (1)	10-10:50am	MW	MSG 103	Oien
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A combination of cardio experiences to improve cardiovascular endurance, body composition, muscle fitness and flexibility. A variety of movements will be explored, including step aerobics, kickboxing, Drums Alive, Zumba, and circuits and weights. Lab fee \$3.10.

**Yoga (HF)**

☯ 7516 P E 150A4 (1)	9-9:50am	TTh	MSG 200	Goss
☯ 7517 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)**

☯ 7518 P E	152A4 (1)	11-11:50am	TTh	MSG 200	Oien
☯ 7519 P E	152B4 (1)	4-4:50pm	TTh	MSG 200	May
☐☯ 7520 P E	152R3 (1)	<b>CANCELED</b>			

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)**

7521 P E	153A (1)	8-8:50am	MW	MSG 200	Barr
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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)**

7522 P E	158N (2)	6-8pm	MW	MSG 200	Grove
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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**

7523 P E	159N (2)	6-8pm	MW	MSG 200	Grove
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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**

7524 P E	160N (2)	6-8pm	MW	MSG 200	Grove
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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**

7525 P E	165A (3)	ARR	ARR	MSG 103	Slorej
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Learn how to apply the fundamentals of softball in game like situations. Lab fee \$3.10.

**Lifetime Fitness (HF)**

☯ 7526 P E	168A3 (2)	10-10:50am	F	WAH 105	Sanchez
		+2 hrs/wk TBA			
☯ 7527 P E	168B3 (2)	12-12:50pm	W	MSG 106	Sanchez
		+2 hrs/wk 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**

8109 P E	208A (1)	ARR	ARR	ARR	Malunat
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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. Lab fee \$3.10.

**Advanced Physical Fitness (HF)**

☐ 7528 P E	210R (1)	9:30-10:30am	TTh	MOR 101	Jones
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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**

7529 P E	215A (1)	12-12:50pm	TTh	MSG 103	Ewings
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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)**

☯ 7530 P E	229AP1 (3)	Online			Johnson C
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A combination of theory and practice in the development of physical fitness. Two lecture hours and two activity hours per week. Lab fee \$3.10.

**Baseball Application II**

7531 P E	231A (3)	ARR	ARR	MSG 103	Leduc J
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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.

**Intermediate Pilates/Core**

☯ 8203 P E	252A4 (1)	4-4:50pm	TTh	MSG 200	May
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This course will build on the skills in the basic Pilates/Core course -breathing with movement, body mechanics, balance, coordination, spatial awareness, strength and flexibility. Prerequisite: PE 152.

**Softball Applications II**

7532 P E	265A (3)	ARR	ARR	MSG 103	Slorej
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Learn how to apply the advanced techniques of softball in game-like situations. Prerequisite: PE 165 or instructor permission. Lab fee \$3.10.

**Intro Outdoor Recreation**

☯ 8204 P E	270A4 (2)	1-3pm	M	MSG 115	Johnson
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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.

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

7537 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 \$18.46.

**Research in Physics**

7536 PHYS 270A (12)	ARR	ARR	ARR	Threapleton
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Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

**POLITICAL SCIENCE****American Government (SS)**

7540 POLS& 202A (5)	9-9:50am	Daily	WSC 204	Peterson J
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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)**

☯ 7541 POLS& 204AP1 (5)	Online			McCulloch
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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)

☞ 7547 PSYC& 100A4 (5)	8-8:50am	Daily	WSC 107	Staroff
☞ 7548 PSYC& 100B4 (5)	9-9:50am	Daily	WSC 101	Staroff
☞ 7549 PSYC& 100CP1 (5)	Online			MacNamara
☞ 8240 PSYC& 100DP1 (5)	Online			Osawa

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)

☞ 7550 PSYC& 200A4 (5)	10-10:50am	Daily	WAH 103	MacNamara
☞ 7551 PSYC& 200BP1 (5)	Online			MacNamara
☞ 7552 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.

### Introduction to Personality

☞ 7546 PSYC 210A4 (5)	12-2:20pm	TTh	WSC 107	MacNamara
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An introduction to the study of personality, including major theories, with a focus on basic principles of psychology and their application to personality development, personal growth and psychological adjustment. Prerequisite: PSYC& 100 or instructor permission.

## READING

### Independent Study

☞ 7553 READ 096N4 (1-5)	5-7:20pm	MW	WSC 111	Shriver G
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Individualized instruction for the student whose needs are not currently being met by the available course offerings. Specialized curriculum and instruction are developed to meet each students needs. Permission of instructor only.

### Specific Reading Skill Development

☞ 7554 READ 097N4 (1-3)	5-7:20pm	MW	WSC 111	Shriver G
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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

☞ 7555 READ 099A4 (1-5)	9-9:50am	Daily	WSC 108	Shriver G
☞ 7556 READ 099N4 (1-5)	5-7:20pm	MW	WSC 111	Shriver G
☞ 7557 READ 099R4 (1-5)	8:30-10:50am	MW	MOR 108	Barnes

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

☞ 7558 READ 100A4 (3)	9-9:50am	Daily	WSC 108	Shriver G
☞ 7559 READ 100N4 (3)	5-7:20pm	MW	WSC 111	Shriver G

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

### Speed Reading

☞ 7560 READ 110N4 (3)	5-7:20pm	ARR	ARR	Shriver G
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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.

## SCIENCE

### Survey of Earth Sciences (NS)

☞ 8134 SCIE 103A4 (5)	9-9:50am	MTWTh	WSC 105	Harris
	1-2:50pm	Th	WSC 105	Harris
☞ 8135 SCIE 103B4 (5)	9-9:50am	MTWTh	WSC 105	Harris
	3-4:50pm	Th	WSC 105	Harris

Explores topics in earth sciences: geology, oceanography, meteorology, astronomy. Earthquakes, volcanoes, glaciers, streams and floods, landslides, tides, coastal features, weather and climate, planets and stars. Integrates information about the relationship between humans and the physical environment. Designed for students with little or no science background.

### Weather and Climate (NS)

☞ 7563 SCIE 115CP1 (5)	Online			Brown D
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Study of Earth's atmosphere, atmospheric processes, weather, climate, and climate history. Experience will be provided in weather map interpretation, use of instruments, forecasting, interpretation of past climate conditions, and hands-on dendrochronology. Prerequisite: MATH 098 or equivalent.

## SOCIOLOGY

### Intro to Sociology (SS)

☞ 7577 SOC& 101AT4 (5)	8-8:50am	Daily	WSC 211	Coffman
☞ 7578 SOC& 101B4 (5)	9-9:50am	Daily	WSC 110	Coffman
☞ 7579 SOC& 101C4 (5)	11-11:50am	Daily	WAH 105	Coffman
☞ 8130 SOC& 101RT4 (5)	8-8:50am	Daily	MOR 110	Coffman
☞ 7580 SOC& 101DP1 (5)	Online			Medlin

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

### Social Problems (SS)

☞ 7581 SOC& 201A4 (5)	10-10:50am	Daily	WSC 208	Mayfield
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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)

☞ 7576 SOC 225AP1 (5)	Online			Medlin
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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)

☞ 7583 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)**

☎ 7584 SPAN& 122A4 (5) 1-1:50pm Daily WSC 210 Martinez

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

**Spanish III (H)**

☎ 7585 SPAN& 123A4 (5) 8-8:50am Daily WSC 210 Gorecki  
 ☎ 7586 SPAN& 123B4 (5) 10-10:50am Daily WSC 210 Gorecki  
 ☎ 7587 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.

**Heritage Spanish II (H)**

☎ 7582 SPAN 202A4 (5) 9-9:50am Daily WSC 210 Gorecki

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

**Spanish VI (H)**

☎ 7588 SPAN& 223A4 (5) 11-11:50am Daily WSC 210 Gorecki

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**

☎ 7565 SDEV 099N4 (1-5) 5-7:20pm MW WSC 111 Shriver G

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

**Career Planning**

☎ 7566 SDEV 105AP1 (2) Online Mercer  
 ☎ 7567 SDEV 105BP1 (2) Online Mercer

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

**Student Success**

☎ 7569 SDEV 150A3 (3) 12-12:55pm Daily WSC 111 Burr  
 ☎ 8223 SDEV 150B3 (3) 12-12:55pm 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 A meets 4/2 - 5/4; section B meets 5/7 - 6/15.**

**WELDING****Welding for Mechanics**

☎ 7591 WELD 151A3 (5) 9-10:50am MW DSL 104 Lucas  
 9-11:50am TTh DSL 104 Lucas

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 5/7 - 6/11.**

**Oxyfule & GTAW Welding**

7592 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. Lab fee \$138.75.

**Oxyacetylene and Gas Tungsten Arc Welding**

7593 WELD 180N (5) 5-9pm TTh TEC 103 Bhagwandin

Safety, setup, brazing, cutting, and welding in all positions using oxyacetylene and gas tungsten arc welding equipment. Lab fee \$73.78.

**Shielded Metal Arc Welding**

7594 WELD 181N (5) 5-9pm TTh TEC 103 Bhagwandin

Safety, setup, and welding in all positions using AC/DC arc welding equipment. Lab fee \$73.78.

**Gas Metal Arc Welding**

7595 WELD 182N (5) 5-9pm TTh TEC 103 Bhagwandin

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

**Advanced Fabrication**

7596 WELD 269A (11) 8-11:50am MWF TEC 103/105 Driscoll

Blueprint interpretation, layout tools and procedures, oxy-fuel and plasma cutting, fitting, and welding fabrication projects. Prerequisite: WELD 267 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

☎ 7059 ACCT 401N3 (5) 6-7:50pm Th WSC 109 Brodersen

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

☎ 7229 DET 345A3 (5) 10am-1:30pm MTWTh TEC 159 Conrad

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 5/7 - 6/11.**

## Hybrid Drives Electric/h

☎ 7230 DET 355A3 (5) 10am-1:30pm MTWTh TEC 159 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 4/2 - 5/3.**

## Internship

☎ 7231 DET 365A3 (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 student, internship provider and instructor. Prerequisite: enrollment in BAS-DT or instructor permission. Lab fee \$64.

## Electrical III

☎ 7227 DET 415A3 (5) 10am-1:30pm MTWTh TEC 159 Hulbert

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 4/2 - 5/3.**

## Power Generation & Maint

☎ 7228 DET 465A3 (5) 10am-1:30pm MTWTh TEC 159 Hulbert

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 5/7 - 6/11.**

## Managerial Economics

☎ 7246 ECON 305N3 (5) 5-6:50pm T WSC 206 Suozzo

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.

## Ethics

☎ 7345 HUM 315A3 (5) 2-3:50pm T WAH 113 Sergiojan

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

## Software Engineering II

☎ 7362 IT 340A3 (5) 4-5:50pm TTh WAH 211 Gul

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

## Info Security for Dev

☎ 8123 IT 430A3 (5) 4-5:50pm 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 permission of the instructor. Lab fee \$50.

## BAS-IT:AD Capstone

☎ 8139 IT 460A3 (5) 3-3:50pm MW WAH 214 Small

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. Lab fee \$50.

## Managerial Statistics

☎ 8125 MATH 350N3 (5) 7-8:50pm M WSC 213 Kiekel

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

## Leadership & Org. Behav.

☎ 7440 MGMT 320N3 (5) 5-6:50pm T WSC 107 MacNamara

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.

## Legal Issues

☎ 7441 MGMT 325N3 (5) 6-7:50pm Th WSC 107 Sergiojan

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.

## Mgmt of Human Resources

☎ 7442 MGMT 420N3 (5) 7-8:50pm T WSC 107 Smejkal

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

☎ 7443 MGMT 435N3 (5) 7-8:50pm T TAC 340 Klamm

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 by permission.

## Management Internship

☎ 7444 MGMT 470NP1 (5) Online Spanski-Drefin

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 \$4.

## Strategic Management

☎ 8124 MGMT 490N3 (5) 5-6:50pm M WSC 206 McClain

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

## MORTON - SPECIAL INTEREST

### **Pilates/Core**

□ 7075 ASI 011R (1) **CANCELED**

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

### **Fitness for Health**

□ 8220 ASI 012R (1) 5-6:20pm MW MOR 101 Oien

Designed to help improve the five areas of health-related physical fitness-cardiovascular endurance, muscular strength, muscular endurance, body composition and flexibility. Participants will be encouraged to work at their own level of fitness. Class fee \$25.

### **Middle Eastern Dance**

□ 7076 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 \$25.

### **Better Bones and Balance**

□ 7077 ASI 015R (1.5) 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**

□ 7079 ASI 038R3 (1) **CANCELED**

An exploration of current personal health issues and a presentation of contemporary approaches to obtaining and maintaining a high level of wellness. Class fee \$25.

### **Digital Photography**

□ 7080 ASI 050R (1) 11am-12:50pm TTh MOR 101 Cantin

Discover and explore works of art through slide lectures, seminars, and creative hands-on art activities. Designed for adults of all artistic abilities and experience. Class fee \$31.

## MORTON - BUSINESS MANAGEMENT

### **Microsoft Excel-Brief**

□ 7571 SMGT 120R (2) 2-4pm Th MOR 112 Cantin

Courseware incorporates an accelerated, step-by-step, project-based approach, students develop an introductory level competency in Excel learning to create, edit, format, calculate and add special features to spreadsheets. Prerequisite: some computer experience. Class fee \$45.13.

### **Microsoft Word**

□ 7574 SMGT 197R (3) 2-4pm T 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 \$66.13.

### **Microsoft PowerPoint**

□ 7575 SMGT 298R5 (3) ARR Th MOR 112 Cantin

Courseware incorporates a step-by-step, project-based approach, to develop competency in Microsoft PowerPoint learning to create, edit, and format professional presentations using tables, graphics, sound, animation, SmartArt and other common features. Class fee \$66.13.