

Fall 2017

Advising Schedule



Fall quarter classes begin September 18, 2017.

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

SCHEDULE KEY

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

Class section codes:

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

Courses with ☞ have online requirements. Enrollment in an online, hybrid, web-enhanced, or flexible class will result in a once per quarter, once per student 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 (S), Social Science (SS), Quantitative Skill (M).

Diversity

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

Diversity courses offered FALL quarter 2017:

	ANTH&	100A4	(5)	Survey of Anthropology (SS)(D)	9-9:50am/Daily
	ANTH&	206B	(5)	Cultural Anthropology (SS)(D)	12-12:50pm/Daily
☞	ANTH	225AP1	(5)	Cultural & Ethnic Pluralism (SS)(D)	Online
☞	ART	200A4	(5)	Art History: Ancient (D) (H)	1-2:50pm/TTh and 1-1:50pm/F
☞	CHIN&	121A4	(5)	Chinese I (D) (H)	11-11:50am/Daily
☞	CMST	250N3	(5)	Intercultural Communications (H)(D)	5-6:50pm/M
	GEOG&	200AT	(5)	Human Geography (D)(SS)	1-3:20pm/TTh
☐	GEOG&	200RT	(5)	Human Geography (D)(SS)	1-3:20pm/TTh
☞	HUM	110A4	(5)	Ethics and Cultural Values (H)(D)	11-11:50am/Daily
☞	MUSC&	105AP1	(5)	Music Appreciation (D) (H)	Online
☞	MUSC&	105BP1	(5)	Music Appreciation (D) (H)	Online
	MUSC	139A	(5)	Music of the World (H)(D)	9-9:50am/Daily
☞	SOC	225AP1	(5)	Cultural & Ethnic Pluralism in Contem. (SS)(D)	Online

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 360-736-9391, ext. 216.

ABE orientation and registration appointments can also be made at Centralia College East in Morton by calling 360-736-9391, ext. 380 or 360-496-5022.

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

Practical Accounting I

3069 ACCT 110A (3) 8-8:50am MWF WAH 205 Smejkal
Emphasizes fundamental principles of double-entry accounting as applied to bookkeeping systems. The course focuses on the development of the accounting cycle for small businesses and professional organizations.

Financial Reporting

☞ 3071 ACCT 200A4 (5) 11-11:50pm Daily WSC 109 Smejkal
This course emphasizes the fundamentals of double-entry accounting and the preparation of financial statements for business entities. Topics include, but are not limited to, accounting for assets, liabilities, equity, revenue and expenses. Prerequisite: compass minimum score of MATH 096 or evidenced score entrance equivalent.

Prin of Accounting I

☞ 3079 ACCT& 201A4 (5) 12-1:20pm MWF WAH 115 Rabe O
☞ 3080 ACCT& 201B5 (5) Flexible Rabe O

This course emphasizes fundamental principles of double-entry accounting and the preparation of financial statements for sole proprietorships. Prerequisite: MATH 098 or equivalent or instructor permission.

Acctg Information System

☐☞ 4133 ACCT 220S3 (5) 3-4:20pm MWF MOR 101 Germann
☐☞ 4132 ACCT 220S5 (5) Flexible MWF MOR 101 Germann

The application of accounting information systems used in the computing environment. It is intended for the public bookkeeper managing transactional disposition of all accounts, developing financial statements, and maintaining external schedules. Prerequisite: ACCT& 201 or instructor permission. Lab fee \$12.

Individual Income Taxes

☞ 3073 ACCT 260A4 (5) 1-3:20pm TTh WAH 113 Rabe O
☞ 3074 ACCT 260B5 (5) Flexible Rabe O

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

Payroll Accounting

☎	3075	ACCT	270A3	(3)	9-10:50am	T	NRA	Mechem
☎	4134	ACCT	270S5	(3)	Flexible	MW	MOR 112	Germaun
☎	4156	ACCT	270S3	(3)	4:30-5:50pm	MW	MOR 112	Germaun

ACCT 270 is an introductory course covering aspects of the Fair Labor Standards Act, the Social Security Act, Federal Income Tax withholding laws, and other laws affecting payroll operations and employment practices. Prerequisite: ACCT& 201.

AMERICAN SIGN LANGUAGE**American Sign Language I**

☎	3104	ASL&	121A4	(5)	12-2:20pm	TTh	WSC 109	Rogers
☎	3105	ASL&	121B4	(5)	2:30-4:50pm	TTh	WSC 109	Rogers

An introductory course in American Sign Language (ASL). Topics covered include visual awareness, vocabulary, basic grammatical principles, comprehension skills, and the historical overview of the deaf community and its language.

ANTHROPOLOGY**Survey of Anthropology (SS) (D)**

☎	4100	ANTH&	100A4	(5)	9-9:50am	Daily	WSC 208	Staff
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Participate in a four-field approach to the study of the diversity of humans and human cultures. Explore subfields of anthropology: social/cultural anthropology, physical/biological anthropology, archaeology, and anthropological linguistics.

Cultural Anthropology (SS)(D)

☎	3086	ANTH&	206A4	(5)	12-12:50pm	Daily	WSC 208	Staff
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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.

Cultural & Ethnic Pluralism in Contem. (SS)(D)

☎	3084	ANTH	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.

ART**Art Appreciation (H)**

☎	3094	ART&	100A3	(5)	10-10:50am	Daily	WSC 213	Frey
☎	4127	ART&	100R4	(5)	12:30-2:50pm	WF	MOR 101	Cantin

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. **Section A3 is a linked course with 3315 ENGL& 101G4 and 3603 SDEV 150A4; students must enroll in all three specified classes.**

Drawing I (H)

☎	3087	ART	102A4	(5)	1-3:50pm	MW	WAH 116/108	Frey
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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 \$8.96.

Drawing II

☎	3088	ART	103A4	(5)	1-3:50pm	MW	WAH 116/108	Frey
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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 \$8.96.

Drawing III

☎	3089	ART	104A4	(5)	1-3:50pm	MW	WAH 116/108	Frey
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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 \$8.96.

2D Design (H)

☎	3090	ART	110A3	(5)	10-10:50am	Daily	WAH 116	Solomon
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Learn and utilize the principles of two-dimensional design and its application on a two-dimensional plane through lecture and studio practice. Lab fee \$40.

Computer Graphics (H)

☎	3091	ART	130A3	(5)	9-9:50am	Daily	WAH 209	Solomon
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An overview of computer programs used to create images for print and screen, still and moving. Gain basic skills in design and programs by creating digital art work in a series of assignments. Lab fee \$50.

Digital Photography (H)

☎	3092	ART	174A3	(5)	12-12:50pm	MTW	WAH 209	Solomon
					1-2:50pm	Th	WAH 209	Solomon

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: Ancient (D) (H)

☎	3093	ART	200A4	(5)	1-2:50pm	TTh	WSC 213	Frey
					1-1:50pm	F	WSC 213	Frey

A survey of the development of art in Europe, the Near East and Asia from prehistoric times through the 14th century CE. The course will explore developments in architecture, painting, sculpture and other art forms.

Tribal Art & Rhythms

☎	4128	ART	297R4	(2)	12:30-1:20pm	WF	MOR 101	Cantin
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Discover and explore the visual art of the indigenous peoples of the world through slide lectures and creative hands-on art activities, including Afro-Cuban rhythms, mask-making and festival projects. The class is designed for students of all artistic abilities and experience. The focus will be on the art and cultures of Africa, Oceania, and the Americas and their influence on contemporary art.

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

☎	3106	ASTR	127AP1	(5)	Online			Garcia
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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**Survey of Biology (S)**

☎	3111	BIOL&	100A4	(5)	11-11:50am	MTWTh	WSC 107	Staff
					1-2:50pm	T	WSC 303	Staff

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

Human Biology (S)

☞ 3112 BIOL& 170A4 (5) 10-10:50am Daily WAH 103 Jewell
Presents the structure, organization, and life functions of the human; cells, tissues, and organ systems; development from embryo to adult; aging and disease; human evolution and ecology.

Human Biology Lab

☞ 3107 BIOL 172A4 (1) 1-2:50pm Th WSC 314 Jewell
Investigate the structure and function of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, immune, respiratory, digestive, urinary, and reproductive systems. Prerequisite: BIOL& 170. Lab fee \$18.46.

Majors Ecology/Evolution (S)

☞ 3113 BIOL& 221A4 (5) 11-11:50am MTWTh WSC 111 Carlson L
2-3:50pm T WSC 307 Carlson L
☞ 3114 BIOL& 221B4 (5) 11-11:50am MTWTh WSC 111 Carlson L
2-3:50pm W WSC 307 Carlson L

Ecology, evolution, taxonomy and phylogeny, diversity of life forms. First course in a three-quarter series (BIOL& 221, 222, 223). Prerequisite: HS biology or BIOL& 100 and MATH 098 or equivalent. Lab fee \$20.96.

Human A & P 1 (S)

☞ 3115 BIOL& 241A4 (5) 12-12:50pm MTWTh WSC 121 Norton
2-3:50pm T WSC 314 Norton
☞ 3116 BIOL& 241B4 (5) 12-12:50pm MTWTh WSC 121 Norton
2-3:50pm W WSC 314 Norton
☞ 3117 BIOL& 241C4 (5) 12-12:50pm MTWTh WSC 121 Norton
4-5:50pm T WSC 314 Norton
☞ 3118 BIOL& 241D4 (5) 12-12:50pm MTWTh WSC 121 Norton
4-5:50pm W WSC 314 Norton

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

Research in Biology

3108 BIOL 270A (1-12) ARR ARR ARR Norton
3109 BIOL 270B (1-12) ARR ARR ARR Carlson L
3110 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.

BUSINESS ADMINISTRATION**Intro to Business**

☞ 3165 BUS& 101A4 (5) 10-10:50am MWF WSC 215 Crawford
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

☞ 3159 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.

Business Law

☞ 3167 BUS& 201AT3 (5) 12-1:50pm MW NRA Harrie
☞ 3169 BUS& 201RT3 (5) 12-1:50pm MW MOR 110 Harrie
☞ 3168 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

☞ 3160 BUS 215A4 (5) 12-1:20pm MTTh WSC 109 Rath
☞ 3161 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, BUS 121 or instructor permission.

Merchandising Management

☞ 3164 BUS 240A3 (5) 12-12:50pm MWF MSG 106 McClain
This course emphasizes the principles and concepts of merchandising management and studies store management, inventory control, purchasing, pricing, logistics, customer relationship management, and advertising.

BUSINESS OFFICE TECHNOLOGY**Keyboarding for Business**

☞ 3119 BTEC 101B4 (3) 9-9:50am Daily WAH 207 Vandegrift
☞ 3120 BTEC 101C4 (3) 10-10:50am Daily WAH 207 Copeland
☐ 3121 BTEC 101R (3) 12-2:30pm TTh MOR 112 Cantin
☐☞ 3122 BTEC 101RE5 (3) CANCELED

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

☞ 3123 BTEC 102B4 (3) 9-9:50am Daily WAH 207 Vandegrift
☞ 3124 BTEC 102C4 (3) 10-10:50am Daily WAH 207 Copeland
☐ 3125 BTEC 102R (3) 12-2pm TTh MOR 112 Cantin
☐☞ 3126 BTEC 102RE5 (3) CANCELED

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.

Electronic Medical Records

☞ 3127 BTEC 107AP1 (3) Online Copeland
Provides an overview of medical records as legal documents. Topics include the make-up of an electronic medical record, charting methods, and retention and storage of records. Course includes computerized medical record work. Corequisite: keyboarding skill, medical terminology.

Business English

☞ 3128 BTEC 110A4 (5) 11-11:50am Daily WAH 205 Shultz
☐☞ 3129 BTEC 110R4 (5) 11:30am-1:50pm TTh MOR 101 Meade

Editing skills including grammar, punctuation, proofreading, and spelling for office correspondence. A basis for machine transcription, business communication, and office procedures.

Cooperative Work Experience

☞ 3132 BTEC 190A4 (1-12) ARR ARR ARR Copeland
See description under Cooperative Work Experience heading.

Work Experience Seminar

☞ 3134 BTEC 191RE5 (1) Flexible Th MOR 112 Cantin
☞ 3133 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

☞ 3135 BTEC 210A4 (5) 9-9:50am Daily WAH 205 Shultz
☞ 3136 BTEC 210B4 (5) 11-11:50am Daily WAH 207 Copeland
☐ 3137 BTEC 210R (5) 2-4:30pm TTh MOR 112 Cantin
☐☞ 3138 BTEC 210RE5 (5) Flexible TTh MOR 112 Cantin

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

Excel

☞ 3139 BTEC 214A3 (5) 12-12:50pm MTWTh WAH 205 Shultz
☐ 3141 BTEC 214R (5) 12-2pm TTh MOR 112 Cantin
☐☞ 3142 BTEC 214RE5 (5) Flexible TTh MOR 112 Cantin

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

Desktop Publishing

☐ 3143 BTEC 218R (4) 12:30-2:30pm TTh MOR 112 Cantin
☐☞ 3144 BTEC 218RE5 (4) Flexible TTh MOR 112 Cantin

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

Word II

☐ 3145 BTEC 219R (4) 2-4:30pm TTh MOR 112 Cantin
☐☞ 3147 BTEC 219RE5 (4) Flexible TTh MOR 112 Cantin

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

Ten-Key Calculator

☞ 3149 BTEC 220A4 (1) 8-8:50am TTh WAH 111 Copeland
☐ 3150 BTEC 220R (1) 10:30am-12pm Th MOR 101 Cantin

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.

Microsoft Office-PowerPoint Module

☐☞ 3151 BTEC 222R5 (1) 11am-1pm T MOR 112 Cantin
☐☞ 3152 BTEC 222RE5 (1) Flexible TTh 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.

Filing

☞ 3153 BTEC 233A4 (3) 12-12:50pm MWF WAH 207 Copeland
Basic principles and procedures of records storage and management. Practice indexing, coding, and filing for alphabetic, numeric, subject, geographic filing systems, and introduction to forms design.

Medical Terminology

☞ 3156 BTEC 260A3 (4) 11-11:50am MTWTh WAH 146 Staff
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 Transcription

☞ 3158 BTEC 263A4 (4) 9-9:50am Daily WAH 207 Vandegrift
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.

CHEMICAL DEPENDENCY

Intro Chem Dependency

3170 CDP 100A (5) 10-11:50am MW WSC 211 Rabe
Historical and current definitions of chemical dependency and abuse and effects abuse on behavior, health, youth, family, special populations and society; focusing on the nature of addictions, causality, progression, assessment, scope, intervention, treatment and prevention.

CDP Law and Ethics

☞ 3172 CDP 120AT4 (4) 1-2:50pm TTh WSC 211 Staff
☐☞ 3173 CDP 120RT3 (4) 1-2:50pm TTh MOR 110 Staff

Contemporary legal and ethical issues in chemical dependency counseling including professional and peer relationships, boundaries, NAADAC code of ethics, multiple relationships and values in the counseling relationship and laws surrounding counseling including confidentiality and HIPPA. Prerequisite: CDP 100.

Counseling Adolescents

☞ 3176 CDP 140AT3 (3) 10-11:50am TTh WSC 211 Rabe
☐☞ 3177 CDP 140RT3 (3) CANCELED

An overview class covering the needs of the addicted adolescent. Developmental, cognitive and physiological issues that are complicated by an adolescent's use of alcohol or other drugs will be covered. Prerequisite: CDP 100; corequisite: PSYC& 200.

CDP Cultural Diversity

4146 CDP 230A (3) 1-2:20pm MW WSC 211 Bailey

A course of study designed to improve knowledge and skills of chemical dependency professionals working with clients from diverse cultural backgrounds. Prerequisite: CDP 100.

Relapse Prevention

4147 CDP 240A (2) CANCELED

CHEMISTRY

Introduction to Chemistry (S)

☞ 3221 CHEM&121A4 (5) 11-11:50am MTWTh WSC 121 Nagelkerke
1-2:50pm W WSC 308 Nagelkerke
☞ 3222 CHEM&121B4 (5) 11-11:50am MTWTh WSC 121 Nagelkerke
3-4:50pm W WSC 308 Nagelkerke
☞ 3223 CHEM&121C4 (5) 11-11:50am MTWTh WSC 121 Nagelkerke
1-2:50pm Th WSC 308 Nagelkerke
☞ 3224 CHEM&121D4 (5) 11-11:50am MTWTh WSC 121 Nagelkerke
1-2:50pm T WSC 308 Nagelkerke
☞ 3225 CHEM&121N4 (5) 5-6:50pm MW WSC 121 Nagelkerke
7-8:50pm M WSC 308 Nagelkerke

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

Problem Solving in Chem

☞ 4101 CHEM 159A3 (1) 10-10:50am F WSC 121 Goodwin K
This course is designed to provide instruction and practice in quantitative problem solving, critical thinking, and the mathematics and study skills that are required to be successful in CHEM& 161. Corequisite: CHEM& 161.

General Chem w/lab I (S)

☞ 3227 CHEM& 161A4 (6) 10-10:50am MTWTh WSC 121 Goodwin
1-4:50pm T WSC 302 Goodwin
☞ 3228 CHEM& 161B4 (6) 10-10:50am MTWTh WSC 121 Goodwin
1-4:50pm W WSC 302 Goodwin

First of a three-quarter sequence for science and engineering majors. Includes matter, measurements, equations, stoichiometry, solution chemistry, gases, thermochemistry, quantum theory, and electronic structure. Problem solving and critical thinking are stressed. Includes lab. Prerequisite: CHEM&121 with a 2.0 or greater and MATH 099 or equivalent, or instructor permission. Instructor permission may be based on results from chemistry placement quiz offered in the testing center. Test results may require corequisite, CHEM 159, for enrollment. Lab fee \$27.46.

General Chem w/lab III (S)

☞ 4102 CHEM& 163A4 (6) 9-9:50am MTWTh WSC 121 Goodwin
1-4:50pm M WSC 302 Goodwin

Third of a three-quarter sequence. Includes acids and bases, acid/base and solubility equilibria, thermodynamics, electrochemistry, and an introduction to organic and nuclear chemistry. Supplemental topics 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 I (S)

☞ 3229 CHEM& 261A4 (6) 12-12:50pm MTWTh WAH 113 Goodwin
1-4:50pm Th WSC 302 Goodwin

General physical and chemical properties of simple aliphatic and aromatic compounds. Prerequisite: CHEM& 161, 162, 163 or instructor permission. Lab fee \$26.88.

Research in Chemistry

3219 CHEM 270A (1-12) ARR ARR ARR Nagelkerke
3220 CHEM 270B (1-12) ARR ARR ARR Goodwin

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

CHILD & FAMILY STUDIES**Learning and Playing**

3178 CFS 110ELL (1-2) ARR ARR ARR Burkhart
☐ 3179 CFS 110MOR(1-2) 9:30-11:15am ARR 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 \$10.

Learning with Infants and Toddlers

3180 CFS 120B (2) ARR ARR ARR Hastings

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

Positive Parenting Children on the Autism Spectrum

3202 CFS 130SSK (1) 9-10:30am Sa HFL Quinlan

Positive Parenting Children in Childcare

☞ 3181 CFS 130AP1 (1-2) ARR ARR ARR Miller
☞ 3203 CFS 140AP1 (1-2) ARR ARR ARR Miller
☞ 3212 CFS 150AP1 (1-2) ARR ARR ARR Miller

Positively Parenting Children in ECEAP

3182 CFS 130BEC (1) ARR ARR ARR Martin
3204 CFS 140BEC (1) ARR ARR ARR Martin
3213 CFS 150BEC (1) ARR ARR ARR Martin

3183 CFS 130CEC (1-2) ARR ARR ARR Chapman
3205 CFS 140CEC (1-2) ARR ARR ARR Chapman
3214 CFS 150CEC (1-2) ARR ARR ARR Chapman

3184 CFS 130CHE (1-2) ARR ARR ARR Osborne
3206 CFS 140CHE (1-2) ARR ARR ARR Osborne

3199 CFS 130SEC (1-2) ARR ARR ARR Scannell
3211 CFS 140SEC (1-2) ARR ARR ARR Scannell

4144 CFS 130CAM(1-2) ARR ARR ARR Osborne
4145 CFS 140CAM(1-2) ARR ARR ARR Osborne

Positive Parenting Children in Head Start

3189 CFS 130H (1-2) ARR ARR CEN Smith
3208 CFS 140H (1-2) ARR ARR CEN Smith
3216 CFS 150H (1-2) ARR ARR CEN Smith

Positively Parenting in Cooperative Preschool

3186 CFS 130FDL (1-2) ARR ARR CEN Chapman
3207 CFS 140FDL (1-2) ARR ARR CEN Chapman
3215 CFS 150FDL (1-2) ARR ARR CEN Chapman

☐ 3193 CFS 130MOR(1-3) ARR ARR MOR 108 Hanson
☐ 3209 CFS 140MOR(1-3) ARR ARR MOR 108 Hanson
☐ 3217 CFS 150MOR(1-3) ARR ARR MOR 108 Hanson

3198 CFS 130ROC(1-2) ARR ARR ROC Chapman
3210 CFS 140ROC(1-2) ARR ARR ROC Chapman
3218 CFS 150ROC(1-2) ARR ARR ROC Chapman

Positively Parenting as a Grandparent

3187 CFS 130GAP(1) 6-8pm M HFL Rearden

Training in Positive Parenting Skills - TIPS

3192 CFS 130M (1-4) 5:30-7:30pm TTh HFL Staff

Positive Parenting with Love and Logic

3191 CFS 130LLJ (2) 6-8pm T LAX 103 Mahoney
6-8pm T LAX 103 Spinnie

Positive Parenting through Strengthening Families

3200 CFS 130SFC (2) ARR ARR CEN Mendez

Positive Parenting in Recovery

3195 CFS 130PIR (1-2) 10-11:50am T CHE Osborne
3197 CFS 130REC (1-2) 9:30-11:30am W HFL Osborne

Dynamic Dads Positive Parenting

3185 CFS 130DAD (1-3) 9am-12pm Sa LAX Kauano

Positive Parenting through Leadership

3190 CFS 130LEA (1-2) ARR ARR LAX 103 Chapman

CHINESE

Chinese I (D) (H)

☞ 3230 CHIN& 121A4 (5) 11-11:50am Daily WSC 208 Wynder
Learn the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture.

Chinese IV (H)

☞ 3231 CHIN& 221A4 (5) 1-1:50pm 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& 123 or instructor permission.

COMMUNICATION STUDIES

Introduction to Mass Media (H)

☞ 3244 CMST& 102A4 (5) 11-11:50am Daily WAH 115 Fisher
☞ 3245 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.

Public Speaking (H)

☞ 3246 CMST& 220A4 (5) 8-8:50am Daily NRA McQuarrie
☞ 3247 CMST& 220B4 (5) 9-9:50am Daily NRA McQuarrie
☞ 3248 CMST& 220C4 (5) 10-10:50am Daily NRA Williams M
☞ 3249 CMST& 220D4 (5) 11-11:50am Daily WSC 109 McQuarrie
☞ 4148 CMST& 220R3 (5) 8:30-10:50am T MOR 108 Barnes
☞ 3250 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.

Advanced Public Speaking (H)

☞ 3241 CMST 240A4 (5) 12-12:50pm Daily NRA McQuarrie
Build upon the skills learned in an introductory public speaking course. Become prepared to present in professional settings and lead effective business meetings as an audience-centered communicator. Prerequisite: CMST& 220 or instructor permission.

Intercultural Communications (H)(D)

☞ 3242 CMST 250N3 (5) 5-6:50pm M WSC 109 Williams M
Students will explore the dynamics of intercultural communication; how variables such as perceptions, language usage, nonverbal style, gender, class, and values influence face-to-face communication among individuals of different cultures; and strengthen communication skills.

Fake News and Info Literacy

☞ 4110 CMST 280A4 (5) 11-11:50am Daily NRA Williams M
This course enables access, analysis, and evaluation of various digital news sources based on critical thinking and research. Encourages exploration and consideration of the contribution of all internet users to the circulation of legitimate and illegitimate news media stories.

COMMUNICATIONS

Dragon NaturallySpeaking

☞ 3251 COMM 100A (2) 8-8:50am T WSC 101 Hoel
☞ 3252 COMM 100BP1 (2) Online Hoel

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

COMPUTER AIDED DRAFTING

Computer Aided Drafting I

☞ 4149 CAD 112A4 (5) 2-3:50pm MW WAH 212 Alves
☞ 4159 CAD 112BP1 (5) Online Alves

AutoCAD drafting, drawing, editing, dimensioning, drawing aids, layer control, blocks, and plotting. Lab fee \$12.50.

COOPERATIVE WORK EXPERIENCE

Cooperative Work Experience

☐ 3253 COOP 190S (1-12) ARR ARR MOR 108 Barnes
Cooperative Work Experience allows students to apply classroom learning to on-the-job settings. Credit is earned for new and continued learning taking place in the work environment. Reaching set learning objectives and development of positive work habits are emphasized. The Cooperative Education Faculty Coordinator, the student employee, and the worksite supervisor identify the learning objectives. 30-360 hrs on-the-job per quarter. Instructor 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

☞ 3236 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.

Constitutional Case Law

☞ 3232 CJ 103A3 (5) 10-10:50am MTWTh WAH 105 Gilbertson
☞ 3233 CJ 103BP1 (5) Online Belden

Examines the Constitution and Bill of Rights in relation to law enforcement, the judiciary, and corrections. Defines guilt-laden facts, reasonable suspicion, and probable cause. Lab fee \$14.86.

Intro to Corrections

☞ 3238 CJ& 105A3 (5) 11-11:50am MTWTh WAH 109 Gilbertson
☞ 3239 CJ& 105AP1 (5) Online Belden

A broad survey of the history and evolution of adult and juvenile correctional models in America. All forms of incarceration and restrictive custody are studied. Pre/corequisite: CJ& 101 or instructor permission. Lab fee \$14.86.

Criminology

☞ 4124 CJ 112AP1 (5) Online Belden

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

Domestic Violence & Abuse

☎ 3234 CJ 130A3 (5) 1-2:50pm MW WAH 109 Gilbertson

This course examines physical and sexual domestic violence in our society. This includes spouse/partner abuse and child abuse. Contemporary investigation and intervention strategies and techniques are studied including evidence discover, collection, and preservation. Lab fee \$13.54.

Criminal Interviews & Interrogations

☎ 4125 CJ 224AP1 (5) Online Belden

Basic and intermediate skills required for criminal and forensic interviews and interrogations. Study, practice, role-play, and evaluate the techniques used to elicit factual information from victims, witnesses and suspects in the course of criminal investigations.

Intro Forensic Science

☎ 3240 CJ& 240A3 (5) 12-2:50pm T NRA McLeod W

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. Lab fee \$14.17.

DIESEL EQUIPMENT TECHNOLOGY**Shop Skills**

☎ 3255 DET 100A3 (7) 9-9:50am MTWTh TEC 104 McCarthy
10am-2:30pm MTWTh DSL 106 McCarthy

Theory and application of basic tools and practices as used in heavy equipment repair facilities. Lab fee \$65.69. **Class meets 9/18- 0/19.**

Forklift Certification

3256 DET 102A (1) 8am-5pm Sa TEC 104 Fay
3257 DET 102B (1) 8am-5pm Sa TEC 104 Fay

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

Power Transmission

☎ 3258 DET 125A3 (7) 9-9:50am MTWTh TEC 104 Conrad
10am-2:30pm MTWTh DSL 106 Conrad

The theory and application of mechanical power transmitting devices and associated components as used in diesel powered equipment. Lab fee \$65.69. **Class meets 10/23-12/4.**

Mobile Electrical Systems II

☎ 3259 DET 200A3 (7) 8-8:50am MTWTh TEC 104 Fay
10am-2:30pm MTWTh DSL 106 Fay

Students will examine electrical components and electronic systems. This course will cover electronic control modules and advanced direct current troubleshooting. Prerequisite: DET 110 or instructor permission. Lab fee \$85.69. **Class meets 10/23-12/4.**

Internal Combustion Engines II

☎ 3260 DET 220A3 (7) 8-8:50am MTWTh TEC 104 Lucas
10am-2:30pm MTWTh DSL 106 Lucas

This course will cover diesel engine analysis and testing for optimal performance and longevity. Students will perform live engine testing, troubleshooting, and repairs. Prerequisite: DET 110 or instructor permission. Lab fee \$85.69. **Class meets 9/18- 0/19.**

DRAMA**Introduction to Theater (H)**

☎ 3267 DRMA& 101A4 (5) 9-9:50am Daily WAH 115 Kreilkamp

Overview of theatre as an art form with emphasis on the play in production and the roles of various theatre artists. Students are expected to attend two plays during the quarter at their own expense.

Beginning Acting (H)

☎ 3265 DRMA 107A4 (5) 10-11:50am TTh WAH 150 Kreilkamp
10-10:50am F WAH 150 Kreilkamp

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.

Dramatic Performance (H)

☎ 3266 DRMA 115A4 (5) ARR ARR ARR Kreilkamp

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

ECONOMICS**Microeconomics (SS)**

☎ 3276 ECON& 201AP1 (5) Online Suozzo
☎ 3277 ECON& 201B4 (5) 12-12:50pm Daily WSC 111 Staff

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

Macroeconomics (SS)

☎ 3278 ECON& 202AP1 (5) Online Suozzo

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

EDUCATION**Guiding Behavior**

☎ 3280 EDUC& 130A3 (3) 2:30-4pm W WSC 213 Spain
2:30-4pm W WSC 213 Kirkpatrick
+1.5 hours/week
☎ 3281 EDUC& 130BS1 (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.

Child/Family/Community

☎ 3283 EDUC& 150A3 (3) 4:30-7:20pm T WAH 115 Staff
4:30-7:20pm Th WAH 115 Kirkpatrick

Investigate the family and community contexts in which children develop. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their children and tools for effective communication.

Intro to Education

☎ 3285 EDUC& 201AT4 (3) CANCELED
☐☎ 4135 EDUC& 201RT4 (3) CANCELED

Intro to Ed w/Field Exp

4168 EDUC& 205AT (5) 10-11:20am MW WSC 213 Spain
 10-11:20am MW 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. Lab fee \$12.

Classroom Observation

3279 EDUC 202A3 (2) ARR ARR ARR Spain
 +3 hours/week

Students review teaching as a career. Students observe classrooms in action and attend seminars to discuss their findings. Students may make arrangement with the instructor to start observations before quarter begins. Lab fee \$12.

EDUCATION-EARLY CHILDHOOD**Child Care Basics**

3268 ECED& 100AW1 (3) Online Staff

Designed to meet licensing requirements for early learning providers, STARS 30 hour basic course recognized in MERIT system. Topics: child development, cultural competency, community resources, guidance, health/safety/nutrition and professional practice.

Intro Early Child Ed

3269 ECED& 105A3 (5) 1-3:30pm T WSC 213 Spain
 1-3:30pm T WSC 213 Kirkpatrick
 +2.5 hours/week

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

Health/Safety/Nutrition

3271 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

3272 ECED& 120A3 (2) 1-1:50pm W WSC 101 Spain
 +2 hrs/wk

4167 ECED& 120B (2) 1:30-2:45pm W WAH 109 Burkhart

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

3273 ECED& 132AW1 (3) Online Staff

Examine the unique developmental needs of infants and toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally relevant care.

Family Child Care

3274 ECED& 134AW1 (3) Online Staff

Learn the basics of home/family child care program management. Topics include licensing requirements; business management, relationship building, health, safety, and nutrition, guiding behavior and promoting growth and development.

Admin Early Lrng Prog

3275 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.

ELECTRONICS/ROBOTICS & MECHATRONICS**Electronics Assembly**

3336 ERA 101A (5) 10-10:50am MWF TAC 331 Whalen
 10-11:50am TTh TAC 331 Whalen

Techniques of electronics assembly using through-hole and surface mount components. Schematics and computer aided design will be studied. Heavy emphasis placed on personal and component safety and Electro-Static Discharge (ESD). Pre/Corequisite: MATH 098, ENGL 099 or equivalents. Lab fee \$83.75.

Industrial Computer Operations

4116 MEC 105A (2) 9-9:50am MWF TAC 331 Whalen

Best practices for computer operations in an industrial environment. Topics include Microsoft Windows operating system navigation, hardware maintenance and various industrial software interfaces. Lab fee \$33.50

Mechanical Systems

4117 MEC 151A (5) 8-8:50am MWF TAC 333 Steidel
 8-9:50am TTh TAC 333 Steidel

Introduction to mechanical system components and safe operation of mechanical drive systems. Simple machines, basic drive systems and operation of various tools will be studied. Lab fee \$83.75.

Digital Electronics

4120 ERA 212A (4) 8-8:50am Daily TAC 331 Peterson D

Digital logic systems and devices, boolean and hexadecimal numbering systems, combinational logic sequences and application of logic systems. Lab section emphasizes safety and electro-static discharge avoidance. Prerequisite: MATH 115, ERA 115. Lab fee \$29.61.

Sensors and Instruments (5)

4118 MEC 220A (5) 1-1:50pm MTF TAC 333 Whalen
 12-1:50pm WTh TAC 333 Whalen

Examination of sensors and diagnostic tools used in industrial environments. Electrical and mechanical measurement instruments will be studied and troubleshooting steps performed to prove competency. Control systems will also be studied. Prerequisite MEC 151. Lab fee \$83.75.

Industrial Electronics

4119 MEC 250A (2) 2-2:50pm MTW TAC 331 Whalen
 2-2:50pm MTW TAC 331 Peterson D

Study of electricity in an industrial facility. Topics covered will focus on 3-phase power analysis and motion control devices including motors, motor drivers and controls. Prerequisite: MEC 116 or equivalent knowledge of AC electricity. Lab fee \$33.50.

Allen Bradley PLCs

4121 MEC 260A (5) 11am-12:50pm MT TAC 333 Peterson D
 11-11:50am WThF TAC 333 Peterson D

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

Siemens PLCs

3469 MEC 261A (3) 10-10:50m MTWTh TAC 333 Peterson D

Study of Siemens programmable logic controllers. Siemens SIMATIC equipment and STEP7 software will be used to construct basic PLC systems. Heavy emphasis on Siemens ladder logic, safety, troubleshooting and efficiency. Prerequisite: MEC 260. Lab fee \$50.25.

Industrial Robotics

3470 MEC 270A (5) **CANCELED**

ENERGY TECHNOLOGY

Intro to Energy Industry

☞ 3580 PPO 100AT3 (5) 1-3:20pm M **TAC 333** Crawford

Provides a broad background in fields related to power generation.

Energy Efficiency

☞ 3581 PPO 150A3 (5) 1-3:20pm W **TAC 333** Crawford

A study of Energy Efficiency concepts related to the efficient and effective use of electricity in home and industry. Subjects covered will include electrical terms, green alternative energy sources, transportation, solar, wind, biomass, and insulation.

Plant Systems

☞ 3582 PPO 201AT3 (5) 1-3:20pm T **TAC 333** Steidel

Provides a background in power plant cycles, systems and equipment, including an introduction to instrumentation and control. Prerequisite: PPO 102.

Hydroelectric Power

☞ 4150 PPO 208A4 (5) 1-3:20pm Th **TAC 333** Crawford

Provides a broad background in the field of electric power generation from hydroelectric dams. Basics of producing electricity including turbines, hydro project regulations, fish passageway, and waer quality, and tribal rights. Prerequisite: PPO 103.

ENGINEERING

Introduction to Engineering

☞ 3329 ENGR 100A4 (2) 11-11:50am TTh WSC 108 Threapleton

Introduction to the various fields and careers of engineering. Topics will include: educational planning and transfer issues; problem solving, engineering design, teamwork, and communication skills.

Mechanics of Materials

3331 ENGR& 225A (5) 9-9:50am Daily WSC 108 Threapleton

The last of a three-course sequence. Includes the study of stress, strain, deflection in beams, columns, machine and structural members. Includes bending moments, shear, torsion, deformation, unsymmetrical bending, and eccentric loading. Prerequisite: ENGR& 214.

Research in Engineering

3330 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

☞ 3286 ENGL 094N (1-5) 5-7:20pm TTh WSC 110 Shriver

☞ 3287 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

☞ 3288 ENGL 095N (1-5) 5-7:20pm TTh WSC 110 Shriver

☞ 3289 ENGL 095R4 (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 II

☞ 3290 ENGL 096N (1-5) 5-7:20pm MW WSC 110 Shriver

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

Vocabulary Development III

☞ 3291 ENGL 097N (1-5) 5-7:20pm MW WSC 110 Shriver

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

Writing & Grammar Review

☞ 3292 ENGL 098A (1-5) 10-10:50am Daily WAH 113 Shriver

☞ 3293 ENGL 098B4 (1-5) 12-12:50pm Daily LIB 112 Enbody

☞ 3294 ENGL 098N (1-5) 5-7:20pm TTh WSC 110 Shriver

☞ 3295 ENGL 098R (1-5) 1:30-3:50pm TTh MOR 108 Nellis

☞ 3296 ENGL 098R (1-5) 1:30-3:50pm TTh MOR 108 Nellis

☞ 3297 ENGL 098TC4 (1-5) 9:10-10:10am MTWTh 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 TC4 meets at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville.

Fundamentals of English

☞ 3298 ENGL 099A (1-5) 10-10:50am Daily KMP 104 **Enbody**

☞ 3299 ENGL 099B (1-5) 10-10:50am Daily WAH 113 Shriver

☞ 3300 ENGL 099C (1-5) 11-11:50am Daily WAH 113 **Burr**

☞ 3301 ENGL 099D (1-5) 12-12:50pm Daily WAH 103 Shriver

☞ 3302 ENGL 099N (1-5) 5-7:20pm TTh WSC 110 Shriver

☞ 3303 ENGL 099R (1-5) 1:30-3:50pm TTh MOR 108 Nellis

☞ 3305 ENGL 099TC4 (1-5) 9:10-10:10am MTWTh 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 TC4 meets at the Chehalis Tribal (Community) Center at 461 Secena Road in Oakville.

English Composition I (C)

☞	3307 ENGL& 101A4	(5)	8-8:50am	Daily	NRA	Young
☞	3308 ENGL& 101B4	(5)	8-8:50am	Daily	WAH 109	Mitchler
	3309 ENGL& 101C	(5)	9-9:50am	Daily	WSC 111	Staff
☞	3311 ENGL& 101D3	(5)	9-9:50am	Daily	WAH 113	Erickson
☞	3313 ENGL& 101E3	(5)	10-10:50am	Daily	WAH 109	Erickson
	3314 ENGL& 101F	(5)	10-10:50am	Daily	WSC 206	Staff
☞	3315 ENGL& 101G4	(5)	11-11:50am	Daily	WSC 213	Williams A
☞	3316 ENGL& 101H3	(5)	11-11:50am	Daily	WSC 110	Waliezer
☞	3317 ENGL& 101J3	(5)	12-12:50pm	Daily	WSC 110	Waliezer
☞	3318 ENGL& 101K4	(5)	1-1:50pm	Daily	KMP 104	Williams A
☐☞	3321 ENGL& 101R3	(5)	12-2:20pm	M	MOR 108	Barnes
☞	3319 ENGL& 101LP1	(5)	Online			Foss

Expository writing course which encourages students to think and write with clarity, conciseness, and enjoyment; to organize and develop their ideas; and to express themselves sharply, economically, and grammatically. Prerequisite: students must meet mandatory placement requirements to enroll. A minimum score of 83 on the COMPASS test, a minimum score of 46 on the ASSET test, or completion of five credits of ENGL 099 with a minimum grade of 2.0. **Section G4 is a linked course with 3094 ART& 100A3 and 3603 SDEV 150A4; students must enroll in all three specified classes.**

Composition II (C)

☞	3322 ENGL& 102A3	(5)	8-8:50am	Daily	WSC 206	Weil
☞	3323 ENGL& 102B4	(5)	9-9:50am	Daily	WSC 206	Williams A
☞	3324 ENGL& 102C3	(5)	10-10:50am	Daily	WSC 110	Waliezer
☞	3325 ENGL& 102D3	(5)	12-12:50pm	Daily	WSC 206	Weil
☞	3326 ENGL& 102EP1	(5)	Online			Davidson

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

Intro to Literature (H)

☞	3328 ENGL& 111A4	(5)	10-10:50am	Daily	NRA	Young
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Introduces the major genres, techniques and themes of literature by examining the work of a variety of classic and contemporary authors.

Short Fiction (H)

☞	3306 ENGL 180A3	(5)	11-11:50am	Daily	WSC 206	Weil
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Survey of short story as representational vehicle in romanticism, realism, modernism, horror, satire, science fiction, magical realism. Primarily American in focus; includes cross-cultural comparisons. College-level reading, writing skills expected. Creative writing options. Prerequisite: college level reading and writing skills.

Writing in the Workplace

☞	3635 WRT 105A4	(5)	8-8:50am	Daily	WAH 207	Erickson
☞	3636 WRT 105BP1	(5)	Online			Foss

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

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

☞	3333 ENV& 100A4	(5)	10-10:50am	Daily	WSC 111	Carlson L
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An introduction to the interactions between humans and the natural world. Topics include structure and function of ecosystems; populations growth; mineral, water, forest, food and energy resources, waste management, pollution. Local and global environmental issues will be discussed.

Intro to Env Science w/lab (S)

☞	3334 ENV& 101AP1	(5)	Online			Carlson L
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An interdisciplinary course for non-science majors and beginning science students. Topics include biodiversity, climate, pollution, energy and food. Independent laboratories and field trips included. Students cannot receive credit for both ENV& 100 and ENV& 101.

GEOGRAPHY**Human Geography (D)(SS)**

	3339 GEOG&200A	(5)	1-3:20pm	TTh	WSC 204	Peterson J
☐	3340 GEOG&200RT	(5)	CANCELED			

Introduction to basic geographical concepts, with an emphasis on interrelationships of people and their physical and cultural environments. Course will satisfy requirements for elementary education majors and meet state-mandated Essential Academic Learning Requirements for geography.

GEOLOGY**Intro Physical Geology (S)**

☞	3344 GEOL& 101A4	(5)	9-9:50am	MTWTh	WSC 101	Staff
			1-2:50pm	W	WSC 105	Staff
☞	3345 GEOL& 101B4	(5)	9-9:50am	MTWTh	WSC 101	Staff
			3-4:50pm	W	WSC 105	Staff

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 (S)

☞	3341 GEOL 108A4	(5)	10-10:50am	MTWTh	WSC 109	Staff
			1-2:50pm	T	WSC 105	Staff
☞	3342 GEOL 108B4	(5)	10-10:50am	MTWTh	WSC 109	Staff
			3-4:50pm	T	WSC 105	Staff

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

	3343 GEOL 270A	(1-12)	ARR	ARR	ARR	Staff
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Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

HEALTH**Health & Wellness (HF)**

☞	4103 HLTH 130A4	(3)	9-9:50am	MWF	MSG 115	Johnson C
☞	3363 HLTH 130BP1	(3)	Online			Johnson C

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

Exercise & Nutrition (HF)

☞	4104 HLTH 140AP1	(3)	Online			Johnson C
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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.

Global Health Issues (HF) (D)

☎ 4152 HLTH 141RP1 (3) Online Jones
 Introduction to global health issues, with a current events focus. Explore factors impacting the health of people around the world, including biological, socio-economic and environmental factors. Examine issues of water, disease, nutrition, and maternal-child health.

Stress Management (HF)

☎ 3366 HLTH 143A4 (2) 11-11:50am MW MSG 106 Johnson C
 ☎ 3368 HLTH 143R3 (2) 5-5:50pm Th MOR 101 Johnson C
 Understand how stress can impact quality of life. Learn methods for identifying stressors and strategies to effectively manage them. Construct a personalized stress management program.

Safety and Fitness (HF)

☎ 3369 HLTH 145A3 (3) 8-8:50am MWF MSG 106 Sanchez
 ☎ 3370 HLTH 145BP1 (3) Online Johnson C
 ☎ 3371 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 \$47.49. **Online class sections have on-campus, required lab. Choose 11/27, 1:30-6pm OR 11/29, 1:30-6pm in MSG 106.**

Community First Aid and CPR

3372 HLTH 154A (1) 8:30am-4pm Sa MSG 106 Layton
 3373 HLTH 154B (1) 8:30am-4pm Sa MSG 106 Layton
 3374 HLTH 154C (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 I (SS)

3350 HIST& 116A (5) 10-10:50am Daily WSC 204 Peterson J
 Analysis of the development of major political, economic, social and cultural characteristics of Antiquity and Medieval Europe.

US History I (SS)

3351 HIST& 146A (5) 12-12:50pm Daily WSC 204 Peterson J
 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)

☎ 3352 HIST& 147AP1 (5) Online 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)

☎ 3354 HIST& 148A3 (5) 9-9:50am MTThF WSC 213 Mayfield
 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

☎ 3347 H R 110A3 (5) 11-11:50am MWF WSC 108 Vandegrift
 ☎ 3348 H R 110B3 (5) 10-10:50am MWF WAH 109 Smejkal
 ☎ 3349 H R 110CP1 (5) Online McClain

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

HUMANITIES

Ethics and Cultural Values (H)(D)

☎ 3375 HUM 110A4 (5) 11-11:50am Daily WAH 105 Mitchler
 An interdisciplinary study of philosophy, literature, history and religion within Western and Oriental ethical systems of thought. It focuses on the importance of cultural values through a study of virtue, duty, utility, and rights.

Humanities I (H)

☎ 3378 HUM& 116A4 (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 pre-history to 1400 C.E.

Lyceum I

3376 HUM 281A (1) 1-1:50pm W WAH 103 Bannish
 ☎ 3377 HUM 281R (1) 12-12:50pm Th ROX Schinnell
 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 Programming

☎ 3379 I T 101A3 (5) 9-9:50am MTWTh WAH 211 Staff
 ☎ 3380 I T 101B3 (5) 10-10:50am MTWTh WAH 211 Staff

This course provides an introduction to programming using Microsoft Visual Studio. Course focus is on building basic graphical applications using the Python programming language. Lab fee \$50.

Intro to Windows OS

☎ 3381 I T 117A4 (3) 8-8:50am MWF WAH 212 Staff
 ☎ 3382 I T 117B4 (3) 9-9:50am MWF WAH 212 Staff
 4130 I T 117C (3) 12-12:50pm MWF WAH 212 Staff

An introduction to Windows Operating System. Course will cover such things as the taskbar, Start menu, recycle bin, windows views, Window Explorer, storage devices, printing, saving, control panels, etc. Lab fee \$25.

Web Scripting 2

☎ 4136 I T 121A3 (4) 11-11:50am MTWTh WAH 211 Staff
 A second course in Web Development. Focus is on modern, responsive, and accessible web design using the latest web specifications. Students will be publishing their work on a web server. Prerequisite: IT 119 or CST 119. Lab fee \$50.

Desktop OS 1

☎ 3383 I T 123A3 (5) 9-9:50am MTWTh WAH 216 Allison
 ☎ 3384 I T 123B3 (5) 10-10:50am MTWTh WAH 216 Allison

This is a first course based on CompTIA A+ and Linux+ certification materials. Material covered includes Virtualization, Vocabulary, OS Installation, Configuration, Customization and Usage Basics of the current popular Desktop Operating Systems. Lab fee \$50.

Desktop OS 2

☎ 4137 I T 124A3 (4) 11-11:50am MTWTh WAH 216 Allison
 This is a second course based on CompTIA A+ and Linux+ certification materials. Material covered includes system hardware, advanced system configuration, and an introduction the command line. Lab fee \$25.

IT Apps Internship

☎ 3385 I T 130A3 (2) 4-4:50pm MTW WAH 211 Staff
 Students will get hands on, full life cycle software development experience working on projects for the department and college. Projects will include web and database application design, development, maintenance and support. Prerequisite: IT 101 and IT 119 or CST 101 and CST 119.

IT Support Internship

3386 1T 140A (2) 4-4:50pm MTW WAH 216 Allison

This course is designed to provide students with an introduction to and experience in Help Desk operations. Students will learn the fundamentals of Tier 1 call taking and customer service. Prerequisite: IT 123 and IT 124 or CNT 123 and CNT 124.

Advanced Networking

4138 1T 202A3 (4) 1-2:20pm MTWTh WAH 216 Allison

A second course in Network Technology focusing on configuring, managing and troubleshooting Cisco devices using Cisco IOS. Prerequisite: IT 201. Lab fee \$50.

Server OS 1

3391 1T 218A3 (4) 2:30-3:50pm MTWTh WAH 216 Allison

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

Object-Oriented Programming

4139 1T 245A3 (4) 1-1:50pm MTWTh WAH 211 Staff

An intermediate level course in object-oriented programming. Course covers creating classes from requirement documents, modeling using diagrams, object-relationship analysis, object reuse and good software design. Experience with one or more computer programming languages recommended. Lab fee \$50.

Dreamweaver

4140 1T 270A3 (4) 2-2:50pm MTWTh WAH 211 Staff

Learn the Adobe Dreamweaver CC software from several perspectives, including tool usage, and use as a development environment for web and mobile applications. Lab fee \$50.

Computer Science I C++

4141 CS& 131A3 (5) 3-3:50pm MTWTh WAH 211 Staff

Intended as an introduction to programming. Emphasis is on the features of the "C" programming language with an introduction to C++ object oriented programming and good programming style. Lab fee \$31.88

Computer Science I Java

3254 CS& 141A3 (5) 12-12:50pm MWF WAH 211 Carlson C

A study of rapid application development (RAD) JAVA. Development of GUIs using Swing Technology. Object Oriented Programming as it is implemented in JAVA. Introduction to graphics, animation, and multi-threading. Prerequisite: MATH 099 or equivalent. Lab fee \$25.10.

INTENSIVE ENGLISH PROGRAM

Intensive English Speaking I - IV

3394 IEP	084A4	(1-5)	1-1:50pm	Daily	WSC 101	Haglund
3398 IEP	088A4	(1-5)	1-1:50pm	Daily	WSC 101	Haglund
3402 IEP	092A4	(1-5)	1-1:50pm	Daily	WSC 101	Haglund
3406 IEP	096A4	(1-5)	1-1:50pm	Daily	WSC 101	Haglund

Multi-level language course with emphasis on communicative oral proficiency. Instruction includes use of multimedia to enhance the learning of the English language and American culture. Lab fee \$24.95.

Intensive English Listening I - IV

3395 IEP	085A4	(1-5)	3-3:50pm	Daily	LIB 103	Lovelett
3399 IEP	089A4	(1-5)	3-3:50pm	Daily	LIB 103	Lovelett
3403 IEP	093A4	(1-5)	3-3:50pm	Daily	LIB 103	Lovelett
3407 IEP	097A4	(1-5)	3-3:50pm	Daily	LIB 103	Lovelett

This course provides students with reciprocal listening training. They will also be introduced to non-reciprocal listening tasks both in a formal and non-formal method of communication.

Intensive English Reading I - IV

3396 IEP	086A4	(1-5)	4-4:50pm	Daily	LIB 103	Lovelett
3400 IEP	090A4	(1-5)	4-4:50pm	Daily	LIB 103	Lovelett
3404 IEP	094A4	(1-5)	4-4:50pm	Daily	LIB 103	Lovelett
3408 IEP	098A4	(1-5)	4-4:50pm	Daily	LIB 103	Lovelett

Multi-level reading course for non-native English Speakers that emphasizes the acquisition of reading skills at a post-secondary level, including vocabulary, comprehension, reading rate, and study skills.

Intensive English: Writing and Grammar Level I - IV

3397 IEP	087A4	(1-5)	12-12:50pm	Daily	WSC 101	Haglund
3401 IEP	091A4	(1-5)	12-12:50pm	Daily	WSC 101	Haglund
3405 IEP	095A4	(1-5)	12-12:50pm	Daily	WSC 101	Haglund
3409 IEP	099A4	(1-5)	12-12:50pm	Daily	WSC 101	Haglund

This is a multi-level class to prepare non-native English students for writing in college level academic and technical courses. Difficulty and length of writing assignments increase with each level. Students write about themselves, their culture or other familiar topics, discuss and write about American and world culture, and academic topics. Writing fluency is stressed, and correction focuses on structural and grammatical errors appropriate to each level. Paragraph development and short essay organization are emphasized. Writing includes description, narration, comparison/contrast, with some analysis and summarizing of short reading passages. Students keep a daily journal.

MATHEMATICS

Basic Mathematics

3424 MATH	095A4	(1-5)	7-8:50am	Daily	LIB 003B	Spitzer
3425 MATH	095B4	(1-5)	9-9:50am	Daily	LIB 003B	Spitzer
3426 MATH	095C4	(1-5)	12-12:50pm	Daily	WSC 215	Brosz
3427 MATH	095D4	(1-5)	1-3:20pm	MTWTh	LIB 003B	Spitzer
			1-3:20pm	MTWTh	LIB 112	Keahey
3428 MATH	095N4	(1-5)	4:30-6:50pm	MTWTh	LIB 112	McLeod A
			4:30-6:50pm	MTWTh	LIB 112	Hemond
3429 MATH	095S4	(1-5)	4:30-6:50pm	MW	MOR 108	Staff

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

Pre-Algebra

3431 MATH	096A4	(1-5)	7-8:50am	Daily	LIB 003B	Spitzer
3432 MATH	096B4	(1-5)	10-10:50am	Daily	WSC 107	Ziegler
3433 MATH	096C4	(1-5)	12-12:50pm	Daily	WSC 107	Ziegler
3434 MATH	096D4	(1-5)	1-3:20pm	MTWTh	LIB 003B	Spitzer
			1-3:20pm	MTWTh	LIB 112	Keahey
3435 MATH	096N4	(1-5)	4:30-6:50pm	MTWTh	LIB 112	McLeod A
			4:30-6:50pm	MTWTh	LIB 112	Hemond
3436 MATH	096S4	(1-5)	4:30-6:50pm	MW	MOR 108	Staff

Covers percents, proportions, unit conversions, geometry, simplifying algebraic expressions and solving simple first degree linear equations. Prerequisite: MATH 095 or appropriate test score placement.

Algebra for Statistics

3437 MATH 097A4 (5) 2-2:50pm Daily WSC 215 Brosz

An algebra course for students intending to enroll in MATH& 146, Introduction to Stats. This course does not meet the algebra prerequisite or other quantitative skills courses or for transfer to the University of Washington. Prerequisite: MATH 096 or Compass score of 78+. **This class is linked with 3465 MATH& 146B4 -students must enroll in both classes.**

Algebra I

☞	3438 MATH	098A4	(1-5)	7-8:50am	Daily	LIB 003B	Spitzer
☞	3439 MATH	098B4	(1-5)	8-8:50am	Daily	WSC 107	Ziegler
☞	3440 MATH	098C4	(1-5)	10-10:50am	Daily	WSC 215	Brosz
☞	3441 MATH	098D4	(1-5)	1-3:20pm	MTWTh	LIB 003B	Spitzer
				1-3:20pm	MTWTh	LIB 112	Keahey
☞	3443 MATH	098N4	(1-5)	4:30-6:50pm	MTWTh	LIB 112	McLeod A
				4:30-6:50pm	MTWTh	LIB 112	Hemond
☞	3444 MATH	098S4	(1-5)	4:30-6:50pm	TTh	MOR 108	Staff
☞	3445 MATH	098TC4	(1-5)	10:20-11:20am	MTWTh	CTC	Griffith
☞	3442 MATH	098FP1	(1-5)	Online			Ziegler

For students with good arithmetic skills and familiarity with signed numbers and basic algebraic expressions. Problem-solving skills are emphasized. Topics include: linear equations and inequalities, graphing, polynomials, and rational expressions. Prerequisite: MATH 096. Section TC4 meets at the Chehalis Tribal (Community Center at 461 Secena Road in Oakville).

Algebra II

☞	3446 MATH	099A4	(1-5)	7-8:50am	Daily	LIB 003B	Spitzer
☞	3447 MATH	099B4	(1-5)	9-9:50am	Daily	WSC 107	Ziegler
☞	3448 MATH	099C4	(1-5)	11-11:50am	Daily	WSC 215	Brosz
☞	3450 MATH	099E4	(1-5)	1-3:20pm	MTWTh	LIB 003B	Spitzer
				1-3:20pm	MTWTh	LIB 112	Keahey
☞	3451 MATH	099N4	(1-5)	4:30-6:50pm	MTWTh	LIB 112	McLeod A
				4:30-6:50pm	MTWTh	LIB 112	Hemond
☞	3452 MATH	099S4	(1-5)	4:30-6:50pm	TTh	MOR 108	Staff
☞	3449 MATH	099DP1	(1-5)	Online			Ziegler

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

Math in Society (M)

☞	3454 MATH&	107A3	(5)	1-1:50pm	Daily	WSC 206	Griffith
☞	3455 MATH&	107BP1	(5)	Online			Staff

Designed to enhance math proficiency of liberal arts students as they meet personal and professional demands. Includes mathematics in management, statistics, probability, art, and other practical applications in society. Not preparation for calculus. Prerequisite: MATH 099 or equivalent.

Linear Algebra (M)

☞	3453 MATH	118A4	(5)	10-10:50am	Daily	WSC 108	Taylor
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Computational and modeling tools with applications in physics, mathematics, engineering, economics, and business. Topics include systems of equations, matrix algebra, vector spaces, subspaces, bases, orthogonality, transformations, and eigenvalues. Prerequisite: MATH& 142 or equivalent placement.

Pre-Calculus I (M)

☞	3458 MATH&	141A4	(5)	8-8:50am	Daily	WSC 110	Carlson C
☞	3459 MATH&	141B4	(5)	8-8:50am	Daily	WSC 111	Staff
☞	3460 MATH&	141C4	(5)	12-12:50pm	Daily	WSC 108	Threapleton
☞	3462 MATH&	141DP1	(5)	Online			Kiekel

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)

☞	3463 MATH&	142A4	(5)	9-9:50am	Daily	WSC 110	Carlson C
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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

☞	4151 MATH	145A4	(1)	11-11:50am	Daily	NRA	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, MATH 099 or equivalent, or instructor permission. **Class meets 9/8 - 10/6.**

Introduction to Stats (M)

☞	3464 MATH&	146A4	(5)	12-12:50pm	Daily	TAC 340	Kiekel
☞	3465 MATH&	146B4	(5)	1-1:50pm	Daily	WSC 215	Kiekel
☞	3466 MATH&	146CP1	(5)	Online			Kostick

Introduction to concepts of data collection, organization and summaries. Develop the fundamental concepts of mean, median and standard deviation, probability, probability distributions, and apply these ideas to hypothesis testing, linear regression and analysis of variance. Prerequisite: MATH 097, MATH 099 or equivalent. **Class 3465, section B4 is linked with 3437 MATH 097A4 -students must enroll in both classes.**

Calculus II (M)

☞	3468 MATH&	152A4	(5)	11-11:50am	Daily	WSC 204	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.

Discrete Math (M)

☞	4105 MATH	228A4	(5)	11-11:50am	Daily	NRA	Taylor
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This class introduces the basic concepts of mathematics that are used in computer science. Topics covered include logic, mathematical induction, combinatorics, set theory, relations and functions. Prerequisites: MATH& 142 or MATH 128.

MEDIA STUDIES**Sports Announcing for Football (C)**

☞	3415 M ST	126A4	(1)	2-2:50pm	M	WAH 113	Fisher
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Learn and apply the basic skills and knowledge required of today's football announcers. This course will emphasize practical tips, ideas and theories that will help you on your way to becoming a quality football announcer.

Intro to Radio Broadcasting (C)

☞	3417 M ST	230A4	(5)	12-12:50pm	Daily	WAH 111	Fisher
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As an introduction to radio broadcasting you will learn about programming philosophies, announcing skills, production techniques, copy writing and the FCC rules and regulations that apply to the industry. Lab fee \$17.94.

Intro to TV & Video Production for Electronic Media

☞	3418 M ST	260A4	(5)	1-1:50pm	MWF	WAH 105	Fisher
				1-2:50pm	TTh	WAH 140	Fisher

Learn studio and control room operations, field and studio camera techniques, basic script writing and video editing. At the end of the quarter students will be able to write, produce and edit short videos. Lab fee \$17.94.

Radio Broadcasting Internship I - IV

☞	3419 M ST	271A4	(1)	ARR	ARR	WAH 140	Fisher
☞	3420 M ST	272A4	(2)	ARR	ARR	WAH 140	Fisher
☞	3421 M ST	273A4	(3)	ARR	ARR	WAH 140	Fisher
☞	3422 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

☎ 3423 M ST 281A4 (1) ARR ARR WAH 140 Fisher
Designed for students who wish to produce independent video projects outside of the classroom environment. Permission of instructor required. Prerequisite: M ST 260, 261, 262.

MEDICAL ASSISTANT

MA Medical Terminology

☎ 3411 MA 139A3 (5) 9-9:50am MTWTh WAH 146 Staff
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

3412 MA 140A (5) 1-2:50pm MTW TEC 115 Speer
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 Clinical Procedures

☎ 3413 MA 241A3 (6) 1-2:20pm MTWTh WAH 146 Boerner
9am-12pm F WAH 146 Boerner
Overview of physical examinations, procedures, and testing that a medical assistant would assist a health care provider with in an ambulatory care setting. Prerequisite: acceptance into a 2nd year MA. Lab fee \$77.

MA Admin Procedures

☎ 3414 MA 249A3 (8) 10-11:50am MTWTh WAH 212 Boerner
Administrative protocols and procedures related to front and back office responsibilities in an ambulatory care setting; with emphasis on communications, medical records management, and fiscal management practices. Prerequisite: acceptance into 2nd year of MA program. Lab fee \$18.50.

MUSIC

Fundamentals of Music

☎ 3476 MUSC 100A4 (5) 9-9:50am Daily WAH 125 ODonel
Introduction to the elements of music theory, including scales, intervals, keys, triads, elementary ear training, notation, meter and rhythm.

Music Appreciation (D) (H)

☎ 3522 MUSC& 105AP1 (5) Online May
Developing an understanding of music through the study of musical elements and cultural contexts.

Jazz Ensemble I - VI

☎ 3477 MUSC 124N4 (2)	5-6:30pm	MW	WAH 107	Lopez
☎ 3478 MUSC 125N4 (2)	5-6:30pm	MW	WAH 107	Lopez
☎ 3479 MUSC 126N4 (2)	5-6:30pm	MW	WAH 107	Lopez
☎ 3480 MUSC 127N4 (2)	5-6:30pm	MW	WAH 107	Lopez
☎ 3481 MUSC 128N4 (2)	5-6:30pm	MW	WAH 107	Lopez
☎ 3482 MUSC 129N4 (2)	5-6:30pm	MW	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 may be required. Lab fee \$17.49.

Beginning Guitar

3483 MUSC 135A (2) 1:30-3pm TTh WAH 111 Tillinghast
Presents the basic skills for reading and techniques needed to play the guitar. Intended for students with little or no background in guitar performance. Students must supply their own acoustic guitar.

Music of the World (D) (H)

3484 MUSC 139A (5) 9-9:50am Daily WAH 103 Woodcock
A music survey of diversity found in music around the world. Examines music as accompaniment to ceremony and ritual, aid to work and routine, and an expression of universal unchanging human emotions. Prior musical experience is not necessary. Prerequisite: proficiency in reading, grammar skills.

History of American Popular Music (D) (H)

☎ 4106 MUSC 140AP1 (5) Online Lopez
This course offers students a thorough and general study of American Music from Tin Pan Alley to the first part of the 21st century.

Music Theory I (H)

☎ 3524 MUSC& 141A4 (5) 10-10:50am Daily WAH 125 May
A study of musical concepts, such as pitch and rhythmic notation, scales and modes, key signatures, intervals, seventh chords and triads. Prerequisite: MUSC 100 or placement by instructor.

Choir I - VI

☎ 3485 MUSC 144A4 (2)	3-3:50pm	MWF	WAH 107	Staff
☎ 3486 MUSC 145A4 (2)	3-3:50pm	MWF	WAH 107	Staff
☎ 3487 MUSC 146A4 (2)	3-3:50pm	MWF	WAH 107	Staff
☎ 3488 MUSC 147A4 (2)	3-3:50pm	MWF	WAH 107	Staff
☎ 3489 MUSC 148A4 (2)	3-3:50pm	MWF	WAH 107	Staff
☎ 3490 MUSC 149A4 (2)	3-3:50pm	MWF	WAH 107	Staff

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. Prerequisite: by audition only. Lab fee \$17.49.

Functional Piano I

☎ 4107 MUSC 151A4 (1) 4-4:50pm MWF WAH 125 Staff
Functional piano study/skill requirement for music majors. A practical course to accompany any of the music theory courses. Emphasis placed on hand coordination, scales, transposition, harmonization and score reading. Corequisite: simultaneous enrollment in a music theory class.

Applied Music Classes:

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

Applied Flute

3491 MUSC 150A (1) ARR ARR ARR ODonel

Applied French Horn

3492 MUSC 154A (1) ARR ARR ARR Blaser

Applied Trumpet

3493 MUSC 155A (1) ARR ARR ARR Blaser

Applied Trombone

3494 MUSC 156A (1)	ARR	ARR	ARR	Blaser
4111 MUSC 156B (1)	ARR	ARR	ARR	Lopez

Applied Tuba

3495 MUSC 157A (1) ARR ARR ARR Blaser

Applied Euphonium

3496 MUSC 158A (1) ARR ARR ARR Blaser

Applied Percussion

3497 MUSC 159A (1) ARR ARR ARR Blaser

Applied Piano							
☯	3498 MUSC	160A4	(1)	ARR	ARR	ARR	May
Applied Violin							
	3499 MUSC	161A	(1)	ARR	ARR	ARR	Scarborough
Applied Viola							
	3500 MUSC	162A	(1)	ARR	ARR	ARR	Scarborough
Applied Cello							
	3501 MUSC	163A	(1)	ARR	ARR	ARR	Staff
Applied Double Bass							
	3502 MUSC	164A	(1)	ARR	ARR	ARR	Staff
Applied Guitar							
	3503 MUSC	165A	(1)	ARR	ARR	ARR	Tillinghast
Applied Saxophone							
	3504 MUSC	166A	(1)	ARR	ARR	ARR	Blaser
	4166 MUSC	166B	(1)	ARR	ARR	ARR	Blaser
Applied Voice							
	3505 MUSC	167A	(1)	ARR	ARR	ARR	Colgan
Applied Composition							
☯	3506 MUSC	168A4	(1)	ARR	ARR	ARR	May
Applied Clarinet							
	3507 MUSC	169A	(1)	ARR	ARR	ARR	Blaser
Applied Oboe							
	3508 MUSC	170A	(1)	ARR	ARR	ARR	Blaser
Applied Bassoon							
	3509 MUSC	171A	(1)	ARR	ARR	ARR	Staff
Community Band I - VI							
	3510 MUSC	175A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
	3511 MUSC	176A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
	3512 MUSC	177A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
	3513 MUSC	178A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
	3514 MUSC	179A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser
	3515 MUSC	180A	(2)	7-9pm	T	WAH 150	Blaser
				ARR	T	WAH 150	Blaser

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

Community Orchestra I - VI

	3516 MUSC	185A	(2)	7-9pm	M	WAH 150	LeDuc D
				ARR	M	WAH 150	LeDuc D
	3517 MUSC	186A	(2)	7-9pm	M	WAH 150	LeDuc D
				ARR	M	WAH 150	LeDuc D
	3518 MUSC	187A	(2)	7-9pm	M	WAH 150	LeDuc D
				ARR	M	WAH 150	LeDuc D
	3519 MUSC	188A	(2)	7-9pm	M	WAH 150	LeDuc D
				ARR	M	WAH 150	LeDuc D
	3520 MUSC	189A	(2)	7-9pm	M	WAH 150	LeDuc D
				ARR	M	WAH 150	LeDuc D
	3521 MUSC	190A	(2)	7-9pm	M	WAH 150	LeDuc D
				ARR	M	WAH 150	LeDuc D

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

Music Theory IV (H)						
☯	3525 MUSC& 241A4	(5)	2-2:50pm	Daily	WAH 125	May
☯	4108 MUSC& 241BP1	(5)	Online			May

A study of musical concepts, such as modulation, binary and ternary forms, and contrapuntal genres, including fugues and inventions. Prerequisite: MUSC& 143.

NURSING

Basic Nursing Care Concepts

☯	3526 NURS	101A4	(12)	ARR	Daily	WSC 202	Ormrod
☯	3527 NURS	101B4	(12)	ARR	Daily	WSC 202	Capen
				ARR	Daily	WSC 202	Schuchmann

Program themes of homeostasis, the role of the nurse, and continuum of care are applied at on-campus theory and skills labs and off-campus clinical experiences at assisted living and long-term care facilities. Prerequisite: admission to the Centralia College Nursing Program. Lab fee \$306.77.

Mental Health & Lifespan

☯	3528 NURS	201A4	(10)	ARR	Daily	WSC 202	Gustafson
☯	3529 NURS	201B4	(10)	ARR	Daily	WSC 202	Sullivan

Progressive competencies reflecting program themes are applied to the care of clients with mental health alterations, complications of child-bearing and high-risk newborns and children. Community-based and in-patient clinical experiences are provided. Corequisite: NURS 101, 102 & 103 or equivalent. Lab fee \$109.56.

Basic Life Support for Healthcare Providers

	3530 NURS	210A	(1)	9am-2pm	ARR	MSG 106	Layton
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Covers the information and skills needed for adult, child, and infant cardiopulmonary resuscitation; the use of an automated external defibrillator; recognition and treatment of choking; safety factors in training and actual rescue. Corequisite: admission to the nursing program or permission of the instructor. Lab fee \$36.52.

Management & Leadership

☯	3531 NURS	220A4	(2)	ARR	Daily	WSC 202	Schuchmann
☯	3532 NURS	220B4	(2)	ARR	Daily	WSC 202	Gustafson

Expands on the program theme of the role of the nurse to provide a stronger theoretical foundation for assuming a management and leadership role in a variety of care settings. Prerequisite: NURS 101, 102 and 103 or equivalent; corequisite: NURS 201. Lab fee \$54.16.

NURSING ASSISTANT

Basic Life Support for Healthcare

	3355 HLSV	110A	(1)	9am-1:30pm	F	TEC 159	Layton
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Course covers the information and skills needed for adult, child, and infant cardiopulmonary resuscitation; the use of an automated external defibrillator; recognition and treatment of choking; safety factors in training and actual rescue. Lab fee \$15.

Nursing Assistant Certification

	3356 HLSV	131A	(9)	8am-12pm	MTWTh	TEC 115	Speer
				5:45am-12pm	ARR	SCC	Speer
	3357 HLSV	131B	(9)	8am-12pm	MTWTh	TEC 115	Speer

awareness of the role of the nursing assistant in nursing care and skill development. Topics: maintain a safe environment, provide restorative care, communication, and practice basic concepts of care. Background check is required for clinical. Lab fee \$194.58.

NUTRITION

Nutrition (S)

☞	3533 NUTR& 101A4	(5)	8-8:50am	Daily	WSC 109	Jewell
☞	3534 NUTR& 101BP1	(5)	Online			Ibrahim

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

OCEANOGRAPHY

Intro to Oceanography (S)

☞	3535 OCEA& 101A4	(5)	11-11:50am	MTWTh	WSC 101	Staff
			1-2:50pm	Th	WSC 105	Staff
☞	3536 OCEA& 101B4	(5)	11-11:50am	MTWTh	WSC 101	Staff
			3-4:50pm	Th	WSC 105	Staff
☞	3537 OCEA& 101CP1	(5)	Online			Khandro

Meets requirement for lab course. Explore the physical, geological, chemical and biological characteristics of the ocean: waves and tides, ocean and atmosphere circulation, coastal features and beach processes, ocean basins, sediments, ocean chemistry and physics, plate tectonics, and marine life. Lab fee \$17.94.

PHILOSOPHY

Intro to Philosophy (H)

☞	3574 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)

☞	3573 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.

PHYSICAL EDUCATION

Basketball

	3538 P E	103A	(1)	ARR	ARR	ARR	Sells
	3539 P E	103B	(1)	ARR	ARR	ARR	Moir

This course will cover the basic skills and techniques of basketball. Includes team defense and team offense. Lab fee \$3.10.

Soccer Fundamentals

	4169 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)

☞	3540 P E	110A4	(1)	9-9:50am	TTh	MSG 125	Oien
☐	3541 P E	110R	(1)	9:30-10:20am	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

	3542 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)

☞	3543 P E	120A4	(2)	9-9:50am	MWF	MSG 125	Oien
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Designed to assist individual in making life style changes associated with health and fitness. Lab fee \$3.10.

Basic Weight Training/Conditioning (HF)

☞	3544 P E	123A4	(1)	10-10:50am	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)

	3545 P E	125A	(1)	11-11:50am	MW	MSG 130	Oien
	4109 P E	125N	(1)	5-5:50pm	MW	MSG 130	Gunderson

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.

Volleyball Applications

	3546 P E	139N	(3)	ARR	ARR	ARR	Gordon
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A course designed to provide experiences in advanced strategies, skills, and team concepts of volleyball. Prerequisite: PE 115 or instructor permission. Lab fee \$3.10.

Boot Camp Basics (HF)

	3547 P E	140A	(1)	CANCELED			
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Cardio Combo (HF)

☞	3548 P E	142A4	(1)	10-10:50am	TTh	MSG 200	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)

☞	3549 P E	150A4	(1)	9-9:50am	TTh	MSG 200	Goss
☞	3550 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)

☞	3551 P E	152A4	(1)	11-11:50am	TTh	MSG 200	Oien
☞	3552 P E	152B4	(1)	4-4:50pm	TTh	MSG 200	May
☐☞	3553 P E	152R3	(1)	3:30-4:30pm	Th	MOR 101	Johnson C

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

Tai Chi Basics (HF)

	3554 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)

	3555 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

	3556 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

3557 P E 160N (2) 6-8pm MW MSG 200 Grove

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

Softball Fundamentals

3558 P E 162A (1) ARR MWF CEN Slorey

A mental and physical approach to the fundamentals of fastpitch softball. An emphasis will be placed on the basic skills and concepts needed to play the game effectively. Lab fee \$3.10.

Baseball Fundamentals

3559 P E 166A (1) ARR ARR ARR LeDuc J

On-the-field practice in development of the basic fundamentals of baseball. Emphasis on basic skills and conditioning. Lab fee \$18.75.

Basketball Fundamentals3560 P E 167A (1) ARR ARR ARR Sells
3561 P E 167B (1) ARR ARR ARR Moir

This course will implement basic fundamentals with theory of various phases of the game. Conditioning for a lifetime activity is an important aspect of the course. Lab fee \$3.10.

Lifetime Fitness (HF)☯ 3562 P E 168A3 (2) 10-10:50am F MSG 106 Sanchez
☯ 3563 P E 168B3 (2) 12-12:50pm W WAH 105 Sanchez

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

Advanced Basketball3564 P E 203A (1) ARR ARR ARR Sells
3565 P E 203B (1) ARR ARR ARR Moir

This course will review basic skills and techniques of basketball. Included in the course also will be advanced skills and techniques along with game strategies. Included team offense and team defense. Prerequisite: PE 103 or instructor permission. Lab fee \$3.10.

Adv Soccer Fundamentals

4170 P E 208A (1) ARR ARR ARR Malunat

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

Advanced Physical Fitness (HF)

□ 4131 P E 210R (1) 9:30-10:20am TTh MOR 101 Jones

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

Advanced Volleyball

3566 P E 215A (1) 12-12:50pm TTh MSG 103 Ewings

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

Physical Fitness Concepts (HF)

☯ 3567 P E 229A3 (3) 12-12:50pm MWTh MSG 115 Johnson C

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

Advanced Volleyball Applications

3568 P E 239N (3) ARR ARR ARR Gordon

Provides experiences in advanced techniques and tactics needed to execute advanced team concepts of volleyball. Lab fee \$3.10.

Advanced Softball Fundamentals

3569 P E 262A (1) ARR MWF CEN Slorey

Continuation of the physical and mental skills needed for playing fastpitch softball. Emphasis will be on a variety of strategies utilized in the game of softball. Lab fee \$3.10.

Advanced Baseball Fundamentals

3570 P E 266A (1) ARR MWF ARR LeDuc J

On the field practice in development of the advanced fundamentals of baseball. Emphasis on advanced skills, strategies, and techniques. Prerequisite: PE 166 or instructor permission. Lab fee \$18.75.

Advanced Basketball Fundamentals3571 P E 267A (1) ARR Daily ARR Sells
3572 P E 267B (1) ARR Daily ARR Moir

More advanced skills practiced. Prerequisite: PE 167 or instructor permission. Lab fee \$3.10.

PHYSICS**Engineering Physics I (S)**3576 PHYS& 221A (5) 8-8:50am MTWTh WSC 108 Threapleton
1-2:50pm M WSC 106 Threapleton
3577 PHYS& 221B (5) 8-8:50am MTWTh WSC 108 Threapleton
3-4:50pm M WSC 106 Threapleton

First in a three quarter calculus-based sequence for science and engineering majors stressing classical mechanics. Include dynamics of translational, rotation, and oscillatory systems of solids, particles and fluids. Prerequisite: MATH& 151; corequisite: MATH& 152. Lab fee \$17.94.

Research in Physics

3575 PHYS 270A (12) ARR ARR ARR Threapleton

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

POLITICAL SCIENCE**Intro Political Science (SS)**

3578 POLS& 101A (5) 9-9:50am Daily WSC 204 Peterson J

Exploration of the fundamentals of political science: key concepts, principles, and theories. Analyze why and how leaders make the decisions they do, and why citizens obey most of these decisions.

American Government (SS)

☯ 3579 POLS& 202AP1 (5) Online Hollenbeck

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

PSYCHOLOGY

General Psychology (SS)

☞ 3583 PSYC& 100AT4 (5)	9-9:50am	Daily	WSC 211	Starroff
☞ 3584 PSYC& 100B4 (5)	10-10:50am	Daily	WSC 101	MacNamara
☞ 3585 PSYC& 100C3 (5)	1:30-3:50pm	TTh	WSC 107	MacNamara
☐☞ 3588 PSYC& 100RT4 (5)	9-9:50am	Daily	MOR 110	Starroff
☞ 3586 PSYC& 100DP1 (5)	Online			MacNamara
☞ 3587 PSYC& 100EP1 (5)	Online			MacNamara

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

Lifespan Psychology (SS)

☞ 3589 PSYC& 200A4 (5)	8-8:50am	Daily	WSC 211	Starroff
☞ 3590 PSYC& 200BP1 (5)	Online			Osawa

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

READING

Specific Reading Skill Development

3591 READ 097N (1-3)	5-7:20pm	MW	WSC 110	Shriver
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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

3592 READ 099A (1-5)	11-11:50am	Daily	MSG 115	Shriver
3593 READ 099N (1-5)	5-7:20pm	MW	WSC 110	Shriver
☐ 3594 READ 099R (1-5)	1:30-3:50pm	TTh	MOR 108	Nellis

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

Speed Reading

3595 READ 110A (3)	ARR	ARR	ARR	Shriver
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Self-paced course for students wishing to increase reading rate and comprehension using proper eye movements, improved vocabulary, and correct reading methods based on reading material. Prerequisite: college level reading and vocabulary skills.

SCIENCE

Survey of Earth Sciences (S)

☐☞ 4126 SCIE 103R3 (5)	8:30-11:20am	W	MOR 101	Fagin
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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. SCIE 103L must be taken concurrently or a later quarter to satisfy the requirement for a science course with a lab. Designed for students with little or no science background.

Intro to Physical Science (S)

☞ 3596 SCIE 104AP1 (5)	CANCELED
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Weather and Climate (S)

☞ 3597 SCIE 115AP1 (5)	Online	Brown D
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Meets requirement for lab course. Study of Earth's atmosphere, atmospheric processes, weather, climate, and climate history. Experience will be provided in weather map interpretation, use of instruments, forecasting, interpretation of past climate conditions, and hands-on dendrochronology. Prerequisite: MATH 098 or equivalent.

SOCIOLOGY

Intro to Sociology (SS)

☞ 3615 SOC& 101A4 (5)	8-8:50am	Daily	WSC 208	Coffman
☞ 3616 SOC& 101B4 (5)	9-9:50am	Daily	NRA	Coffman
☞ 3617 SOC& 101C4 (5)	11-11:50am	Daily	NRA	Coffman
☞ 3618 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)

3619 SOC& 201A (5)	10-10:50am	Daily	WSC 208	Staff
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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 in Contemporary Society (SS)(D)

☞ 3614 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)

☞ 3620 SPAN& 121A4 (5)	8-8:50am	Daily	WSC 210	Gorecki
☞ 3621 SPAN& 121B4 (5)	10-10:50am	Daily	WSC 210	Gorecki
☞ 3622 SPAN& 121C4 (5)	1-1:50pm	Daily	WSC 210	Martinez
☞ 3623 SPAN& 121DP1 (5)	Online			Martinez

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

Spanish II (H)

☞ 3624 SPAN& 122A4 (5)	12-12:50pm	Daily	WSC 210	Gorecki
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Second class in sequence. Learn the fundamental skills of listening comprehension, speaking, reading and writing. Develop an awareness of Spanish speaking countries and their cultures. Prerequisite: SPAN& 121 or instructor permission.

Spanish IV (H)

☞ 3625 SPAN& 221A4 (5)	11-11:50am	Daily	WSC 210	Gorecki
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Discuss Hispanic cultures in Spanish, develop oral and written skills, review and expand essential points of grammar, and build vocabulary. Prerequisite: SPAN& 123 or permission of instructor.

SPEECH

Fundamentals of Public Speaking (H)

☎ 3626 SPEE 101A4 (3) 10-10:50am MWF WAH 205 Fisher
A course focusing on development, preparation, and delivery skills for beginning public speakers. Attention given to anxiety reduction techniques in addition to the preparation and use of visual aids in informative and persuasive speeches.

STUDENT DEVELOPMENT

Study Skills

☎ 3598 SDEV 099N (1-5) 5-7:20pm MW WSC 110 Shriver
Students learn essential skills needed for effective study. Course includes learning style assessment, time management, study reading, memory techniques, test-taking strategies, and research techniques.

Centralia College 101

☎ 3599 SDEV 101A4 (1) 8:30am-3pm Th WAH 152 Bannish
8:30am-2pm F WAH 105 Bannish

An orientation class emphasizing utilization of campus resources and offering multiple workshops on library research skills, note taking, test taking, stress management, reading skills and memory improvement. Lab fee \$7.22.

Career Planning

☎ 3600 SDEV 105AP1 (2) Online Mercer
Students identify their interests, skills and abilities and evaluate their personality styles, values and work environments as they relate to careers. Activities include interest inventory test, computer programs, job market research and informational interviewing. The format is lecture, discussion, group activities and individual projects. Lab fee \$17.94.

Student Success

☎ 3603 SDEV 150A4 (3) 12-12:50pm MWF WSC 213 Burr
☎ 3604 SDEV 150B4 (3) 1-1:50pm MWF MSG 115 Burr
☐☎ 3607 SDEV 150R4 (3) 12-1:20pm TTh MOR 108 Barnes

College success strategies; goal-setting, time management, memory improvement, textbook reading strategies, note-taking, test-taking, project management. Taught by lecture, group and individual work. Includes Saturday field trip for challenge course activities. Lab fee \$36.91. **Section A4 is a linked course with 3094 ART& 100A3 and 3315 ENGL& 101G4; students must enroll in all three specified classes.**

College Success

☎ 3608 SDEV 155A4 (5) CANCELED

WELDING

SMAW Welding

3627 WELD 161A (12) 11am-2:50pm Daily TEC 103 Peters
11am-2:50pm Daily TEC 105 Peters

Shielded metal arc welding safety, joint design, electrode selection, welding machine setup and operations. Lab practice will include butt, lap, tee and corner joints in all positions. Weld testing and air carbon arc cutting included. Lab fee \$138.75.

Metallurgy for Welders

3628 WELD 167A (3) 3-4:30pm MTW TEC 105 Peters

Study of metals relevant to welding technology, extraction of metals from ores, refining metals, the manufacture of metal products, mechanical, physical and chemical properties of metals and the hardening, tempering and heat treating of metals. Lab fee \$8.

Oxyacetylene and Gas Tungsten Arc Welding

3629 WELD 180N (5) 5-8:50pm 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

3630 WELD 181N (5) 5-8:50pm TTh TEC 103 Bhagwandin

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

Gas Metal Arc Welding

3631 WELD 182N (5) 5-8:50pm TTh TEC 103 Bhagwandin

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

Advanced Arc Welding

3632 WELD 265A (12) 8-11:50am Daily TEC 103 Driscoll
8-11:50am Daily TEC 105 Driscoll

Theory and practice of advanced shielded metal arc welding (SMAW) to prepare for the Washington Association of Building Officials (WABO) certification tests on plate and pipe. Prerequisite: Completion of Year 1 Welding/permission of Instructor. Lab fee \$138.75.

Blueprint Reading

3633 WELD 271A (3) 12-1:30pm TTh TEC 105 Driscoll

Fundamentals of drawing interpretation in the welding trade. Included are blueprint reading, welding symbols, fabrication techniques, identification of welds, and welding abbreviations. Prerequisite: WELD 126.

Arc Welding Certification

3634 WELD 285N (5) ARR TTh NRA Staff

Practical exercises enable students to prepare for the Washington Association of Building Officials (WABO) certification tests in gas metal arc welding (GMAW), flux cored arc welding (FCAW), and shielded metal arc welding (SMAW). Prerequisite: prior welding experience required. 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/>

Intermediate Accounting I

📍 3078 ACCT 301N3 (5) 6-7:50pm Th WSC 111 Kovis

The first installment of a two-part course designed to teach a professional level understanding of financial accounting and reporting as it applies to business entities both publically traded and privately held. Prerequisite: ACCT& 202 or permission.

Prof & Org Communication

📍 3243 CMST 330A4 (5) 7-8:50pm T WSC 109 McClain

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

Applied Management

📍 3261 DET 300A3 (5) 10am-12pm MTWTh TEC 159 Fay

Introduces the principles and concepts of effective management including human resource management, quality control, social responsibility, decision-making, communication, conflict resolution and customer service. Prerequisite: enrollment in BAS-DT or instructor permission. **Class meets 9/18-10/19.**

Emissions control

📍 3262 DET 320A3 (5) 10am-1:50pm MTWTh TEC 159 Lucas
11am-1:50pm MTWTh TEC 154 Lucas

Course content will focus on the theory and application of diesel exhaust emissions reduction technology. Prerequisite: enrollment in BAS-DT or instructor permission. Lab fee \$75. **Class meets 10/23-12/4.**

Shop/Fleet Management

📍 3263 DET 430A3 (5) 10-10:50am MTWTh TEC 159 McCarthy
11am-1:50pm MTWTh TEC 154 McCarthy

Introduction and explanation of day-to-day shop processes. Managerial skills, tasks, and responsibilities relevant to the diesel and heavy equipment industry will include: warranties, policies, cores, credits, paper in process, work orders, and budgeting. Prerequisite: enrollment in BAS-DT or instructor permission. Lab fee \$75. **Class meets 10/23-12/4.**

Environmental Issues

📍 3332 ENVS 440N3 (5) 5-6:50pm T WSC 206 Hueckel

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

Applied Failure Analysis

📍 4123 DET 455A3 (5) 10-10:50am MTWTh TEC 159 Conrad

This course focuses on material failures, techniques of failure analysis, and examination/identification of failure root causes. Students will learn to interpret and explain their results to customers. Lab fee \$100.

Adv Web Applications

📍 3392 IT 310A3 (5) 1-1:50pm MTWTh WAH 214 Small

An advanced course in web development. This course covers the full web development stack including client side(HTML, CSS, JavaScript), server side (ASP.NET), database layer (MSSQL), using frameworks (MVC). Lab fee \$50.

Development Methodologies

📍 3393 IT 320A3 (5) 2-2:50pm MTWTh WAH 214 Small

Students are introduced to formal software engineering methodologies. Various well known methodologies are covered through examination of case studies and in project work. Team development practices are emphasized. Lab fee \$50.

Adv. Data Access Techniques

📍 4162 IT 410A3 (5) 3-3:50pm MTWTh WAH 214 Small

This course examines utilization of advanced database systems such as NOSQL systems, dimensional cubes and hypercubes (OLAP), ODBC connections, and relational database systems for data analysis and development of data driven applications.

Internship I

📍 4163 IT 440A3 (5) 4-4:50pm WAH 214 Small

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

Foundations of Mgmt

📍 3471 MGMT 300N3 (5) 5-6:50pm T WSC 109 Smejkal

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

Leadership and Organizational Behavior

📍 4114 MGMT 320N3 (5) 5-6:50pm M WSC 109MacNamara

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

📍 4115 MGMT 325N3 (5) 6-7:50pm W WSC 109 Staff

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.

Applied Financial Mgmt

📍 3472 MGMT 340N3 (5) 7-8:50pm T WSC 206 Kovis

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

Bus Prin, Plnng & Strategy

📍 3473 MGMT 360N3 (5) 6-7:50pm Th WSC 206 McClain

Core course in strategy and planning. Topics include: establishing organizational mission, formal planning, strategy formulation, and implementation. Identify strengths, weaknesses, opportunities, and threats facing organizations.

Marketing for Managers

☰ 3475 MGMT 380N3 (5) 6-7:50pm Th WSC 109 Crawford

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

Management of Human Resources

☰ 4113 MGMT 420N3 (5) 7-8:50pm M WSC 109 King

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.

MORTON BUSINESS MGMT

Microsoft Excel-Brief

□ 3609 SMGT 120R (2) 11:30am-1:30pm T 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.

Computer Keyboarding

□ 3611 SMGT 157R (2) 1-2pm TTh MOR 112 Cantin
Beginning keyboarding. Upon completion of this class, students should be able to type at 20 wpm. Class fee \$45.13.

QuickBooks

□ 4157 SMGT 161S4 (4) 4:30-5:50pm MW MOR 112 Germann
Courseware incorporates an accelerated, step-by-step, project based approach to creating a company, working with customer, vendor and banking transactions along with inventory, payroll, and balance sheet accounts. Use quick learning tutorials for audio instruction. Class fee \$87.13.

Microsoft Word

□ 3612 SMGT 197R (3) 11:30am-1:30pm Th 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

□ 3613 SMGT 298R (3) 1-2pm TTh 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.

MORTON - SPECIAL INTEREST

Pilates/Core

□ 3095 ASI 011R (1) 3:30-4:30pm Th MOR 101 Johnson C
An exercise class designed to teach breathing with movement, body mechanics, balance, coordination, spatial awareness, strength and flexibility. Class fee \$25.

Middle Eastern Dance

□ 3096 ASI 014S (1) 6:30-7:30pm T MOR Nixon
Learn and practice dance postures, flexibility, and dance movements traditional to Middle Eastern cultures. Discover rich and varied music and movement inherent in Middle Eastern dance. Dress for exercise. Class fee \$25.

Better Bones and Balance

□ 3097 ASI 015R (1) 9:30-10:20am TTh MOR 101 Jones
Reap the benefits OSU Bone Research studies have shown: this exercise program can significantly slow loss of bone density in adults of all ages as well as improve balance, flexibility, coordination, muscle tone and overall body fitness. Class fee \$25.

Computer for the Fearful

□ 3098 ASI 020R (2) 9-11:30am TTh MOR 112 Burren
This class provides a basic introduction to computers (the parts and terminology), as well as an overview of the Window operating system. Class fee \$67.

Success & Leadership

□ 3099 ASI 033R4 (2) 12-1:20pm TTh MOR 108 Barnes
The study of behavior, personality, self-management, self-development as it relates to academic, personal or workplace goals. Class fee \$55.

Health/Wellness Topics

□ 3100 ASI 038R3 (1) 5-5:50pm Th MOR 101 Johnson C
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.

Tribal Art & Rhythms

□ 4129 ASI 050R4 (5) 12:30-1:20pm WF MOR 101 Cantin
Discover and explore the visual art of the indigenous peoples of the world through slide lectures and creative hands-on art activities, including Afro-Cuban rhythms, mask-making and festival projects. The class is designed for students of all artistic abilities and experience. The focus will be on the art and cultures of Africa, Oceania, and the Americas and their influence on contemporary art.

Community Speaker Series

□ 3101 ASI 063R (1) 12-12:50pm Th ROX Schinnell
The community Speaker Series offers a variety of lectures on topics of current interest across a wide variety of disciplines. Class fee \$25.